

RECEIVED

OCT 19 2000

TECH CENTER 1600/2900

1

## SEQUENCE LISTING

<110> Wold, William S.M.  
Toth, Karoly  
Doronin, Konstantin  
Tollefson, Ann E.

<120> Replication-Competent Anti-Cancer Vectors

<130> 16153-7775

<140> 09/351,778

<141> 1999-07-12

<160> 27

<170> PatentIn Ver. 2.0

<210> 1

<211> 33592

<212> DNA

<213> Adenovirus subgroup C

<400> 1

catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60  
ttgtgacgtg gcgcgggcgc tgggaacggg gcgggtgacg tagtagtggt gcggaagtgt 120  
gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgtttttg 180  
gtgtgcgcgc gtgtacacag gaagtgcacaa ttttcgcgcg gttttaggcg gatgttgtag 240  
taaatttggg cgtaacccag taagatttgg ccattttcgc gggaaaactg aataagagga 300  
agtgaatctt gaataatttt gtgttactca tagcgcgtaa tatttgtcta gggccgcggg 360  
gactttgacc gtttacgtgg agactcgccc aggtgttttt ctccaggtgtt ttccgcgttc 420  
cgggtcaaaag ttggcggttt attattatag tcagctgacg ttagtgtagt ttatacccg 480  
tgagttcctc aagaggccac tcttgagtgc cagcgagtag agttttctcc tccgagccgc 540  
tccgacacgc ggactgaaaa tgagacatga ggtactggct gataatcttc cacctcctag 600  
ccattttgaa ccacctaccc ttcacgaact gtatgattta gacgtgacgg ccccggaaga 660  
tcccaacgag gaggcggttt ccgagatttt tcccactct gtaatgttgg cgggtgcagga 720  
agggattgac ttactcaact ttccgcgcgc gcccggttct ccggagccgc gtttgccacg 780  
ccggcagccc gagcagccgg agcagagagc cttgggtccg gtttgccacg aggtgtggtt 840  
tccaccaggt gacgacgagg atgaagaggg tgaggagttt gtgttagatt atgtggagca 900  
ccccgggcac ggttgacagt cttgtcatta tcaccgagg aatacggggg acccagatat 960  
tatgtgttcg ctttgctata tgaggacctg tggcatgttt gtctacagta agtgaataatt 1020  
atgggcagtg ggtgatagag tgggtgggtt ggtgtggtaa tttttttttt aatttttaca 1080  
gttttgggtt ttaaagaatt ttgtattgtg atttttttaa aaggtcctgt gtctgaacct 1140  
gagcctgagc ccgagccaga accggagcct gcaagaccta cccgccgtcc taaaatggcg 1200  
cctgctatcc tgagacgccc gacatcaact gtgtctagag aatgcaatag tagtacggt 1260  
agctgtgact ccggtccttc taacacacct cctgagatac acccggtggt cccgctgtgc 1320  
cccattaaac cagttgccgt gagagttggt gggcgctcgc aggtgtgga atgtatcgag 1380  
gacttgctta acgagcctgg gcaacctttg gacttgagct gtaaaccgcc caggccataa 1440  
ggtgtaaac tgtgattgag tgtgtggtta acgcctttgt ttgctgaatg agttgatgta 1500  
agttaataa agggtgagat aatgtttaac ttgcatggcg tgttaaattg ggcggggcct 1560  
aaagggata taatgcgcgc tgggctaate ttggttacat ctgacctcat ggaggcttgg 1620  
gagtgtttgg aagatttttc tgcgtgctg aacttgctgg aacagagctc taacagtacc 1680  
tcttggtttt ggaggtttct gtggggctca tcccaggcaa agttagtctg cagaattaag 1740  
gaggattaca agtggaatt tgaagagctt ttgaaatcct gtggtgagct gtttgattct 1800  
ttgaatctgg gtcaccaggc gcttttccaa gagaaggcca tcaagacttt ggatttttcc 1860  
acaccggggc gcgctgcggc tgctgttgct tttttgagtt ttataaagga taaatggagc 1920  
gaagaaaccc atctgagcgc ggggtacctg ctggttttcc tggccatgca tctgtggaga 1980  
gcggttgtag gacacaagaa tcgcctgcta ctgtgtctt ccgtccgccc ggcgataata 2040  
ccgacggagg agcagcagca gcagcaggag gaagccaggc ggcggcgcca ggagcagagc 2100  
ccatggaacc cgagagccgc cctggaccct cgggaatgaa tgttgtagag gtggtgaac 2160  
tgtatccaga actgagacgc attttgacaa ttacagagga taggaatcta gcttttagct 2220  
taaagaggga gcggggggt tgtgaggcta cagaggaggc taggaatcta gcttttagct 2280  
taatgaccag acaccgtcct gagtgtatta cttttcaaca gatcaaggat aattgcgcta 2340  
atgagcttga tctgctggcg cagaagtatt ccatagagca gctgaccact tactggctgc 2400  
agccagggga tgattttgag gaggctatta gggtatatgc aaaggtggca cttaggccag 2460  
attgcaagta caagatcagc aaacttgtaa atatcaggaa ttgttgctac atttctggga 2520

RECEIVED

JUL 10 1968

THE UNIVERSITY OF MICHIGAN

acgggggcccga ggtggagata gatacggagg ataggggtggc ctttagatgt agcatgataa 2580  
 atatgtggcc ggggtgctt ggcatggacg ggggtggttat tatgaatgta aggtttactg 2640  
 gcccgaattt tagcgttacg gttttcctgg ccaataccaa ccttatccta cacgggtgtaa 2700  
 gcttctatgg gtttaacaat acctgtgtgg aagcctggac cgatgtaagg gttcggggct 2760  
 gtgcctttta ctgtgctgg aaggggtgg tgtgtcgccc caaaagcagg gcttcaatta 2820  
 agaaatgcct ctttgaaagg tgtacctgg gtatcctgtc tgagggtaac tccagggtgc 2880  
 gccacaatgt ggcctccgac tgtggttgc tcatgctagt gaaaagcgtg gctgtgatta 2940  
 agcataacat ggtatgtggc aactgcgagg acagggcctc tcagatgctg acctgctcgg 3000  
 acggcaactg tcacctgctg aagaccattc acgtagccag ccactctcgc aaggcctggc 3060  
 cagtgtttga gcataacata ctgaccgct acactaagat attgcttgag cccgagagca 3120  
 tgttcctacc ttaccaatgc aatttgagtc acatgaccat gaagatctgg aaggtgctga 3180  
 tgtccaaggt gaacctgaac ggggtgtttg cctgcgagtg tggcggtaaa catattagga 3240  
 ggtacgatga gacccgacc aggtgcagac agctgaggcc cgatcacttg gtgctggcct 3300  
 accagcctgt gatgctggat gtgaccgagg tctagcgatg aagatacaga ttgaggtaact 3360  
 gcacccgcgc tgagtttggc aagaatataat aaggtggggg tcttatgtag tttgtatct 3420  
 ggcggtggctt aaggtggga agccgcccgc gccatgagca ccaactcgtt tgatggaagc attgtgagct 3480  
 gttttgcagc aacgcgcatg cccccatggg ccgggggtgcg tcagaatgtg atgggctcca 3540  
 catatttgac gcgcccgtc ctgcccgaact actctactac cttgacctac gagaccgtgt 3600  
 gcattgatgg tctggagact gcagcctccg ccgcccgttc agccgctgca gccaccgcc 3660  
 ctggaacgcc gttggagact gactgacttt gctttcctga gcccgcttc aagcagtgca gcttccgct 3720  
 gcgggattgt cgatgacaag ttgacggctc ttttggcaca attggattct ttgacccggg 3780  
 catccgcccgc cggtttctcag cagctgttgg atctgcgcca gcaggtttct gccctgaagg 3840  
 aacttaatgt tcccaatgcg gtttaaaaca taaataaaaa accagactct gtttggattt 3900  
 ctccctcccc agtgctcttgc tgtctttatt taggggtttt gcgcgcgcgg tagggccggg 4020  
 ggatcaagca tccggtcgtt agggctcctgt gtattttttc caggacgtgg taaaggtgac 4080  
 accagcggtc cagatacatg ggcataagcc cgtctctggg gtggaggtag caccactgca 4140  
 tctggatggt ctgcgggggtg gtgtttaga tgatccagtc gtagcaggag cgctggcgct 4200  
 gagcttcatg aatgtctttc agtagcaagc tgattgccag gggcaggccc ttggtgtaag 4260  
 ggtgcctaaa gcggttaagc tgggatgggt gcatacgtgg ggatatgaga tgcactctgg 4320  
 tgtttcaaaa taggttggct atgttcccag ccatatccct ccggggattc atgttgtgca 4380  
 actgtatttt gaaccaccag cacagtgtat ccggtgcact tgggaaattt gtcatgtagc ttagaaggaa 4440  
 gaaccaccag gaacttggag acgcccctgt gacctccaag attttccatg cattcgtcca 4500  
 atgcgtggaa aatgggcccga cggcgggcgg cataggccat ttttacaagg cgcgggcgga 4560  
 taatgatggc gctcatagtt gtgttccagg atgagatcgt ccggcccagg ggcgtagtta cctcacaga 4620  
 cgtcatagtt ctgcggtata atgtttccat gggggatcat gtctacctgc ggggagatga 4680  
 ggggtgccaga ccacgctttg agttcagatg gctgggaaga aagcaggttc ctgagcagct 4740  
 tttgcatttc ttccggggta ggggagatca tcacacctat taccgggtgc aactggtagt 4800  
 agaaaacggt tccgcccgtg gggcggtaaa gcaggggggc cacttcgtta agcatgtccc 4860  
 gcgacttacc gcagccggtg tcatccctga ccagaaggcg ctcgcgcgcc agcgatagca 4920  
 taagagagct gttttccctg accaaatccg gtttgagacc gtccgcgta ggcagcttt 4980  
 tgactcgcat gttttccctg tttttcaacg cccacagctc ggtcacctgc tctacggcat 5040  
 gttcttgcaa ggaagcaaa tccaggcggg gttggggcgg ctttcgctgt acggcagtag 5100  
 tgagcgtttg accaagcagt cgtttcgcgg gtctttccac gggcgaggg tctcgtcag 5160  
 ctcgatccag catatctcct ccagggtcat tccgggctgc gcgctggcca ggtgcgctt 5220  
 tccgtgtctg tccagacggg aggggtgcgc tccgggctgc cctgcgcgt cgccaggta 5280  
 cgtagtctgg gtcacggtga tgaagcgtg ctcgcggcg tggcccttg cgcgcagctt 5340  
 gaggtggtc ctgctgtgtc atgggtcat agtccagccc gtgcagactt ttgagggcgt agagcttggg 5400  
 gcatttgacc atgtgtcat acgaggggca atccgcgcg caggccccgc agacgggtctc 5460  
 gcccttggag gaggcgccgc gggagtaggc ttcgggggtca aaaaccaggg tcccccatg 5520  
 cgcgagaaat accgattccg gctctggccg catgagccgg tgtccacgct cggtgacgaa 5580  
 gcattccacg agccagggtg ctctggtttc gagaggcctg tctcagagcg gtgttcccg 5640  
 ctttttgatg cgtttcttac atacagactt tgagacaaaag gctcgcgtcc aggccagcac 5700  
 aaggctgtcc gtgtccccgt cggaccactc gttgtccact agggggtcca ctcgctccag 5760  
 gtcctcctcg aagtgaggag ggtagcggtc atcaaggaag gtgattggtt tgtagtgta 5820  
 gaaggaggct cacatgtcgc cctcttcggc ctgataaaaag ggggtggggg cgcgttcgtc 5880  
 ggtgtgaaga cccgggtgtc tccgcatcgc ggcagctgt tggggtgagt actccctctg 5940  
 ctactctct atgacttctg cgctaagatt gtcagtttcc aaaaacgagg aggatttgat 6000  
 aaaagcgggc cccgcggtga tgccttttag ggtggccgca tccatctggt cagaaaaagc 6060  
 attcacctgg ttgtcaagct tggtggcaaa cgaccgtag agggcggttg acagcaactt 6120  
 aatctttttg gcgagggggt ggtttttgtc cgcatcggcg cgctccttgg ccgcatgtt 6180  
 tagctgcacg tattecgcg caacgcaccg ccattcggga aagacggtg tgcgctcgtc 6240  
 gggcaccagg tgcacgcgc aaccgcggt gtgcaggggt acaaggtcaa cgctggtggc 6300  
 tacctctccg cgtagggcgt cgttggtcca gcagaggcg ccgcccttgc gcgagcagaa 6360  
 tggcggtagg ggtctagct gcgtctcgtc cgggggggtc gcgtccacgg taaagacccc 6420

```

gggcagcagg cgcgcgctga agtagtctat cttgcatcct tgcaagtcta ggcgctgctg 6540
ccatgcgcgg gcggcaagcg cgcgctcgta tgggttgagt gggggacccc atggcatggg 6600
gtgggtgagc gcgggagcgt acatgccgca aatgtcgtaa acgtagaggg gctctctgag 6660
tattccaaga tatgtagggt agcatcttcc accgcggtg ctggcgcgca cgtaatcgta 6720
tagttcgtgc gagggagcga ggaggtcggg accgaggttg ctacgggcgg gctgctctgc 6780
tcggaagact atctgcctga agatggcatg tgagttggat gatatggttg gacgctggaa 6840
gacgttgaag ctggcgctctg tgagacctac cgcgctcacgc acgaaggagg cgtaggagtc 6900
gcgcagcttg ttgaccagct cggcggtgac ctgcacgtct agggcgagcgt agtccagggt 6960
ttccttgatg atgtcatact tatcctgtcc ctttttttcc cacagctcgc ggttgaggac 7020
aaactcttcg cgtgtctttcc agtactcttg gatcggaac ccgtcggcct ccgaacggta 7080
agagcctagc atgtagaact ggttgacggc ctggtaggcg cagcatccct tttctacggg 7140
tagcgcgatg cctgcgcgg ccttccggag cgaggtgtgg gtgagcgcaa aggtgtccct 7200
gacctagact ttgaggtact ggtatttgaa gtcagtgtcg tcgcatccgc cctgctccca 7260
gagcaaaaag tccgtgcgct ttttggaacg cggatttggc agggcgaaag tgacatcggt 7320
gaagagtatc tttccgcgcg gaggcataaa gttgcgtgtg atgcggaagg gtcccggcac 7380
ctcggaacgg ttgttaatta cctgggcggc gagcacgac tcgtcaaagc cgttgatggt 7440
gtggcccaca atgtaaagtt ccaagaagcg cgggatgccc ttgatggaag gcaatttttt 7500
aagtctctcg taggtgagct cttcagggga gctgagcccg tgctctgaaa gggcccagtc 7560
tgcaagatga gggttggaag cgacgaatga gctccacagg tcacgggcca ttagcatttg 7620
caggtggctg cgaaagggtc taaactggcg acctatggcc atttttctg gggtagtga 7680
gtagaaggta agcgggtctt gttcccagcg gtcccatcca aggttcgcgg ctaggtctcg 7740
cgcgcgagtc actagaggct catctccgcc gaacttcatg accagcatga agggcacgag 7800
ctgcttccca aaggccccca tccaagtata ggtctctaca tcgtaggtag caaagagacg 7860
ctcggtgcga ggatgcgagc cgatcgggaa gactggatc tcccgccacc aattggagga 7920
gtggctattg atgtggtgaa agtagaagtc gactcgacgg gccgaacact cgtgctggct 7980
tttgtaaaaa cgtgcgcagt actggcagcg gtgcacgggc tgtacatcct gcacgaggtt 8040
gacctgacga ccgcgcacaa ggaagcagag tgggaatttg agccctcgc ctggcggtt 8100
tggctggtgg tcttctactt cggtgcttg tccttgaccg tctggtgct ctaggtgctg 8160
tacgttggat cggaccacca cgccgcgca gcccaaagtc cagatgtccg cgccgcggcg 8220
tcggagcttg atgacaacat cgcgcgatg ggagctgtcc atggtctgga atggtctgga 8280
cgtcaggtea ggcgggagct cctgcaggtt tacctcgcat agacgggtca gggcgcgggc 8340
tagatccagg tgatacctaa tttccagggg ctggttggtg gcgcgctoga tggcttgcaa 8400
gaggccgatg ccccgcgggc cgactacggt accgcgcggc gggcggtggg ccgcgggggt 8460
gtccttgatg gatgcattca aaagcggtag ccgcgcgag ccgcgcgagg tagggggggc 8520
tccggaccgg ccgggagagg gggcaggggc acgtcggcgc cgcgcgcggg caggagctgg 8580
tgctgcgcgc gtaggttgct ggcgaacgcg acgacgcggc ggttgatctc ctgaatctgg 8640
cgctctcgcg tgaagacgac gggcccgggt agcttgagcc tgaagagag ttcgacagaa 8700
tcaatttcgg tgtcgttgac ggcggcctgg cgaaaatct cctgcacgtc tcttagttg 8760
tcttgatagg cgatctcggc catgaactgc tggatctctt cctcctggag atctccgct 8820
ccggctcgct ccacggtggc ggcgaggtcg ttgaaatgc gggccatgag ctgcgagaag 8880
gcgttgaggc ctccctcggt ccagacgcgg ctgtagacca cgccccctt cggcatcgcg 8940
gcgcgcatga ccacctgcgc gagattgagc tcacgtgcc gggcgaagac ggcgtagttt 9000
cgcaggcgct gaaagaggta gttgaggggt gtggcggtgt gttctgccac gaagaagta 9060
ataacccagc gtgcgaacgt ggattcggtg atatcccca aggcctcaag gcgctccatg 9120
gcctcgtaga agtccacggc gaagttgaaa aactgggagt tgcgcgcga cacggttaac 9180
tctcctcca gaagacggat gagctcggcg acagtgtcgc gcacctcgc ctcaaaggct 9240
acaggggect cttcttcttc ttcaatctcc tcttccataa gggcctcccc ttcttcttct 9300
tctggcgcg gtgggggagg ggggacacgg cgcgacgac ggcgcaccgg gaggcggtc 9360
acaaagcgct cgatcatctc ccgcgcgca cgcgcatgg tctcggtgac ggcgcggccg 9420
ttctcgcggg ggcgcagttg gaagacgccg cccgtcatgt cccggttatg ggttggcggg 9480
gggctgccat gcggcagggg tacggcgcta acgatgcac gcacgaaaa gatcgaaaa 9540
actccgccgc cgagggacct gagcgagtc gcatcgacc aggtgagca ccgtggcggg cggcagcggg 9600
aaggcgctca accagtcaca gtcgcaaggt aggtgatga tgtaattaaa gtaggcgggtc 9660
cggcggtcgg ggttggttct ggcgaggtg ctgctgatga tgcattttaa gtaggcgggtc 9720
ttgagacggc ggatggtcga cagaagcacc atgtccttgg gtccggcctg ctgaatgcgc 9780
aggcggtcgg ccatgccccca ggttcgtttt tgacatcggc gcaggtcttt gtagtagtct 9840
tgcatgagcc tttctaccgg cacttcttct tctccttct cttgtcctgc atctcttgca 9900
tctatcgcg cgcgcgcggc ggagtttggc cgtaggtggc gccctcttcc tcccatcggt 9960
gtgaccccg aagccctcat cggctgaagc cggctaggt cggcgacaac gcgctcggct 10020
aatatggcct gctgcacctg cgtgagggtg gactggaagt catccatgtc cacaaagcgg 10080
tggtatgcgc ccgtggtgat ggtgtaagt cagttggcca taacggacca gttaacggtc 10140
tggtgaccgg gctgcgagag ctcggtgtac ctgagacgcg agtaagccct cgagtcaaat 10200
acgtagtcgt tgcaagtccg caccaggtac ttgatatcca ccaaaaagtg cggcgcggc 10260
tggcggtaga ggggccagcg tagggtggcc gggcgagatc ttccaacata 10320
aggcgatgat atccgtagat gtacctggac atccaggtga tgccggcggc ggtggtggag 10380
gcgcgcggaa agtcgcggac gcggttccag atgttgcgca gcggcaaaaa gtgctccatg 10440

```

gtcgggacgc tctggccggt caggcgcgcg caatcggtga cgctctagcg tgcaaaagga 10500  
 gagcctgtaa gcgggcactc ttccgtgggc tgggtggataa attcgcaagg gtatcatggc 10560  
 ggacgaccgg ggttcgagcc ccgtatccgg ccgtcccgcc tgatccatgc ggttaccgcc 10620  
 cgcggtgcga acccaggtgt gcgacgtcag acaacggggg agtgctcctt ttggcttcc 10680  
 tccaggcgcg gcggctgctg cgctagcttt tttggccact ggccgcgcgc agcgtaagcg 10740  
 gttaggctgg aaagcgaaag cattaagtgg ctcgctccct gtagccggag ggttattttc 10800  
 caagggttga gtcgcgggac ccccggttcg agtctcggac cggccggact gcggcgacg 10860  
 ggggtttgcc tccccgtcat gcaagacccc gcttgcaaat tcctccgga acagggacga 10920  
 gccccttttt tgcttttccc agatgcatcc ggtgctgcgg cagatgcgcc cccctcctca 10980  
 gcagcgcaaa gagcaagagc agcggcgagc atgcagggca cccctccctc ctccctaccgc 11040  
 gtcaggaggg gcgacatccg cgggtgacgc ggcagcagat ggtgattacg aacccccgcg 11100  
 gcgcggggcc cggcactacc tggacttgga ggaggcgag ggcctggcgc ggctaggagc 11160  
 gccctctcct gagcgtacc caagggtgca gctgaagcgt gatacgcggt aggcgtacgt 11220  
 gccgcggcag aacctgtttc gcgaccgca gggagaggag cccgaggaga tgcgggatcg 11280  
 aaagttccac gcaggcgcg agctgcggca tggcctgaat cgcgagcggt tgcgtgcgca 11340  
 ggaggacttt gagcccgacg cgcgaaccgg gattagtcct gcgcgcgcac acgtggcgcg 11400  
 cgccgacctg gtaaccgcat acgagcagac ggtgaaccag gagattaact ttcaaaaaag 11460  
 ctttaacaac cacgtgcgta cgcttggtgc gcgcgaggag gtggctatag gactgatgca 11520  
 tctgtgggac tttgtaagcg cgctggagca aaacccaaat agcaagccgc tcatggcgca 11580  
 gctgttcctt atagtgcagc acagcaggga caacgaggca ttcagggatg cgctgctaaa 11640  
 catagtagag cccgagggcc gctggctgct cgatttgata aacatcctgc agagcatagt 11700  
 ggtgcaggag cgcagcttga gcctggctga caagggtggc gccatcaact attccatgct 11760  
 tagcctgggc aagttttacg cccgcaagat ataccatacc ccttacgttc ccatagacaa 11820  
 ggaggtaaag atcgaggggt tctacatgcg catggcgctg aagggtgctta ccttgagcga 11880  
 cgacctgggc gtttatcgca acgagcgcat ccacaaggcc gtgagcgtga gccggcgcg 11940  
 cgagctcagc gaccgcgagc tgatgcacag cctgcaaaag gccctggctg gcacggcgag 12000  
 cggcgataga gaggccgagt cctactttga cgcggcgct gacctgcgct gggccccaag 12060  
 ccgacgcgcc ctggaggcag ctggggcccg acctgggctg gcggtggcac ccgcgcgcc 12120  
 tggcaacgtc ggcgcgctgg aggaatatga cgaggacgat gactacgagc cagaggacgg 12180  
 cgagtactaa gcggtgatgt ttctgatcag atgatgcaag acgcaacgga cccggcggtg 12240  
 cgggcgcgcc tgcagagcca gccgtccggc cttaactcca cggacgactg gcgccaggtc 12300  
 atggaccgca tcatgtcgct gactgcgcgc aatcctgacg cgttccggca gcagcccgag 12360  
 gccaacgggc tctccgcaat tctggaagcg gtggtcccg gcgcgcgcaa cccacgcac 12420  
 gagaagggtc tggcgatcgt aaacgcgctg gccgaaaaa gggccatccg gcccgacgag 12480  
 gccggcctgg tctacgacgc gctgcttcag cgcgtggctc gttacaacag cggaacgtg 12540  
 cagaccaacc tggaccggct ggtgggggat gtgcgcgag cctggcgca gcgtgagcgc 12600  
 gcgcagcagc agggcaacct gggctccatg gttgcactaa acgccttccct gactacacag 12660  
 cccgccaacg tgcccggggg acaggaggac tacaccaact ttgtgagcgc actgcgcta 12720  
 atggtgactg agacaocgca aagtggaggtg taccagtctg ggccagacta ttttttccag 12780  
 accagtagac aaggcctgca gaccgtaaac ctgagccagg ctttcaaaaa ctgacagggg 12840  
 ctgtgggggg tgccggctcc cacaggcgac cgcgcgaccg tgtctagctt gctgacgccc 12900  
 aactcgcgcc tgttgcgtgt gctaatagcg cctttcacgg acagtggcag cgtgtcccg 12960  
 gacacatacc taggtcactt gctgacactg taccccgagg ccataaggtca ggcgcatgtg 13020  
 gacgagcata ctttccagga gattacaagt gtcagcccg cgctggggca ggaggacacg 13080  
 ggcagcctgg aggcacacct aaactacctg ctgaccaacc ggccgagaa gatcccctcg 13140  
 ttgcacagtt taaacagcga ggaggagcgc attttgcgct acgtgcagca gagcgtgagc 13200  
 cttaacctga tgcgcgacgg ggtaacgccc agcgtggcgc tggacatgac gcgcgcgaac 13260  
 atggaaccgg gcatgtatgc ctcaaaccgg ccgtttatca accgcctaag ggactacttg 13320  
 catcgcgcg gcgcgtgaa ccccgagtat ttcaccaatg ccattctgaa cccgcactgg 13380  
 ctaccgcccc ctggtttcta caccggggga ttcgaggtgc ccgagggtaa cgatggattc 13440  
 ctctgggacg acatagacga cagcgtgttt tccccgcaac cgcagaccct gctagagttg 13500  
 caacagcgcg agcaggcaga ggcggcgctg cgaaaggaaa gcttccgcag gccaaagcag 13560  
 ttgtccgate taggcgctgc ggcccccgcg tcagatgcta gtagccatt tccaagcttg 13620  
 atagggtctc ttaccagcac tcgcaaccac cgcgcgcgc tgctggcgga ggaggagtac 13680  
 ctaaacaact cgctgctgca gccgcagcgc gaaaaaaacc tgcctccggc atttcccaac 13740  
 aacgggatag agagcctagt ggacaagatg agtagatgga agacgtacgc gcaggagcac 13800  
 agggacgtgc caggcccgcg cccgccacc cgctcgtcaa ggcacgaccg tcagcggggt 13860  
 ctggtgtggg aggcagatga cctggcagac gcagacagc tcctggattt gggagggagt 13920  
 ggcaaccgct ttgcgcacct tcgccccagg ctggggagaa tgttttaaaa aaaaaaaagc 13980  
 atgatgcaaa ataaaaaact caccaaggcc atggcaccga gcgttggttt tcttgatttc 14040  
 cccttagtat gggcgcgcg gcgatgtatg aggaaggtcc tcctccctcc tacgagagt 14100  
 tggtagcggc ggcccgatg tgggttctcc cttcgatgct cccctggacc 14160  
 cgccgtttgt gcctccgcg tactctcgcc ctaccggggg gagaaacagc atccgttact 14220  
 ctgagttggc acccctattc gacaccaccc gtgtgtacct ggtggacaac aagtcaacg 14280  
 atgtggcatc cctgaactac cagaacgacc acagcaactt tctgaccacg gtcattcaaa 14340  
 acaatgacta cagccccggg gaggcaagca cacagaccat caatcttgac gaccggctcg 14400

actggggcgg cgacctgaaa accatcctgc ataccaacat gccaaatgtg aacgagttca 14460  
 tgtttaccacaa taagttttaag gcgcgggtga tgggtgcgcg cttgcctact aaggacaatc 14520  
 aggtggagct gaaatacgag tgggtggagt tcacgctgcc cgagggcaac tactccgaga 14580  
 ccatgaccat agaccttatg aacaacgcga tcgtggagca ctacttgaaa gtgggcagac 14640  
 agaacggggt tctggaaagc gacatcgggg taaagtttga caccgcgaac ttcagactgg 14700  
 ggtttgacct cgtcactggt cttgtcatgc ctgggggtata tacaacgaa gccttccatc 14760  
 cagacatcat tttgtgcca ggatgcgggg tggacttcac ccacagccgc ctgagcaact 14820  
 tgttgggcat ccgcaagcgg caaccttcc aggagggtt taggatcacc tacgatgatc 14880  
 tggagggtgg taacattccc gactgttgg atgtggacgc ctaccaggcg agcttgaaa 14940  
 atgacaccga acagggcggg ggtggcgag gcgcgagcaa cagcagtggc agcggcgcg 15000  
 aagagaactc caacgcggca gccgcggcaa tgcagccggt ggaggacatg aacgatcatg 15060  
 ccattcgcgg cgacacctt gccacacggg ctgaggagaa gcgcgctgag gccgaagcag 15120  
 cggccgaagc tgccgcccc gctgcgcaac ccgaggtcga gaagcctcag aagaaaccgg 15180  
 tgatcaaac cctgacagag gacagcaaga aacgcagtta caacctata agcaatgaca 15240  
 gcaccttcac ccagtaccgc agctggtacc ctttgactc ctgacgtaac ctgcggtctg 15300  
 gaatccgctc atggaccctg ctttgactc ctgacgtaac ctgcggtctg gagcaggtct 15360  
 actggtcgtt gccagacatg atgcaagacc ccgtgacctt ccgctccacg cgccagatca 15420  
 gcaactttcc ggtggtggg gccgagctgt tgcccggtga ctccaagagc ttctacaacg 15480  
 accaggccgt ctactcccaa ctcctccgccc agtttacctc tctgaccac gtgttcaatc 15540  
 gctttcccgaa gaaccagatt ttggcgcgcc cgccagcccc caccatcacc accgtcagt 15600  
 aaaacgttcc tgctctcaca gatcacggga cgctaccgct gcgcaacagc atcgaggag 15660  
 tccagcgagt gaccattact gacgccagac gccgcacctg cccctacgtt tacaaggccc 15720  
 tgggcatagt ctgcgcgcg gtcctatcga gccgcacttt ttgagcaagc atgtccatcc 15780  
 ttatatcgcc cagcaataac acaggctggg gcctgcgctt cccaagcaag atgtttggcg 15840  
 gggccaagaa gcgctccgac caacacccag ttgcgcgtgc cgggcaactac cgcgcgcct 15900  
 ggggcgcgca caaacgcggc cgcactgggc gcaccacgt cgatgacgcc atcgacgcgg 15960  
 tggtgaggga ggcgcgcaac tacacgcccc cgccgccacc agtgtccaca gtggacgcgg 16020  
 ccattcagac cgtggtgccc ggagccccgc gctatgctaa aatgaagaga cggcgaggc 16080  
 gcgtagcacg tcgccaccgc cgccgacccg gcactgccgc ccaacgcgcg gcggcgccc 16140  
 tgcttaaccg gcacgtcgc accggccgac gggcgcccat gcgggcccgt cgaaggctgg 16200  
 ccgccccgat tgtcactgtg cccccaggt ccaggcgacg agcgggcccgc gcagcagccg 16260  
 cgccattag tgctatgact cagggtcgca ggggcaacgt gtattgggtg cgcgactcgg 16320  
 ttagcgccct gcgcgtgccc gtgcgcaccc gccccccg cgactgcccg gggcgcgcaac 16380  
 actacttaga ctcgactgtg tgatgtatc caggcgcggc ggcgcgcaac gaagctatgt 16440  
 ccaagcgcaa aatcaagaa gagatgctcc aggtcatcgc gccggagatc tatggcccc 16500  
 cgaagaagga agagcaggat tacaagcccc gaaagctaaa gcgggtcaaa aagaaaaaga 16560  
 aagatgatga tgatgaactt gacgacgagg tggaaactgt gcacgtacc gcgccagggc 16620  
 gacgggtaca gtggaagggt cgacgcgtaa aacgtgtttt gcgacccggc accaccgtag 16680  
 tctttacgcc cggtagcgc tccaccgca cctacaagcg cgtgtatgat gaggtgtacg 16740  
 gcgacgagga cctgcttgag caggccaacg agcgccctcg ggagtttgcc tacggaagc 16800  
 ggcataagga catgctggcg ttgccgctgg acgagggcaa cccaacacct agcctaaagc 16860  
 ccgtaaacct gcagcaggtg ctgcccgcg ttgcaccgtc cgaagaaaag cgcggcctaa 16920  
 agcgcgagtc tggtagcttg gcacccacg tgcaactgat ggtacccaag gcgcagcgac 16980  
 tggaaagatgt cttgaaaaa atgaccgtgg aacctgggt ggagccccgag gtccgcgtgc 17040  
 ggccaatcaa gcaggtggcg ccgggactgg gcgtgcagac cgtggacgtt cagataacca 17100  
 ctaccagtag caccagtatt gccaccgcca cagagggcat ggagacacaa acgtccccg 17160  
 ttgectcagc ggtggcggat gccgcgtgc agcggtcgc tgcggccgag agcccccg cgccccgcg 17220  
 ctacggaggt gcaaacggac ccgtggatgt ttccggttcc atatgcccta catccttcca 17340  
 gttcgaggaa gtacggcgcc gccagcgcg cctaccgccc cagaagacga gcaactacc 17400  
 ttgcgcctac ccccggtat cgtggctaca gccgtcgccg tcgccagccc gtgctggccc 17460  
 gacgccgaac caccactgga acccgccgccc gaggcaggac cctggtgctg ccaacagcg 17520  
 cgattttccgt gcgcagggtg gctcgcgaag gaggcaggac cctggtgctg tcttgagat 17580  
 gctaccaccc cagcatcgtt taaaagccgg tctttgtgg tcttgagat atggccctca 17640  
 cctgccgct cctgttcccg gtgcccggat tccgaggaag aatgcaccgt aggaggggca 17700  
 tggccggcca cgccctgacg ggcggcatgc gtcgtgcgca ccaccggcg cggcgcgct 17760  
 cgacccgtcg catgcgcggc ggtatcctgc cctccttat tccactgat cccgcggcga 17820  
 ttggcgccgt gcccggaatt gcatccgtgg ccttgacggc gcagagacac tgattaaaaa 17880  
 caagttgcat gtggaaaaa caaaaataaaa agtctggact ctcacgctcg cttggtcctg 17940  
 taactatttt gtagaatgga agacatcaac tttgcgtctc tggcccccg acacggtcg 18000  
 cgcccgttca tgggaaactg gcaagatatc ggcaccagca atatgagcgg tggcgcttc 18060  
 agctggggct cgctgtggag cggcattaaa aatttcggtt ccaccgttaa gaactatggc 18120  
 agcaaggcct ggaacagcag cacaggccag atgctgagg ataagttgaa agagcaaaa 18180  
 ttccaacaaa aggtggtaga tggcctggcc tctggcatta gcggggtgg ggacctggcc 18240  
 aaccaggcag tgcaaaaata gattaacagt aagcttgatc cccgccctcc cgtagaggag 18300  
 cctccaccgg ccgtggagac agtgcttcca gagggcggt gcgaaaagc tccgcgcccc 18360  
 gacagggaag aaactctggt gacgcaata gacgagcct cctcgtaga ggaggcacta

aagcaaggcc	tgcccaccac	ccgtcccac	gcgcccattg	ctaccggagt	gctggggccag	18420
cacacacccg	taacgctgga	cctgcctccc	cccgcgcgaca	cccagcagaa	acctgtgctg	18480
ccaggcccga	ccgcggttgt	tgtaacccgt	cctagccgcg	cgccctgcg	ccgcgccgc	18540
agcggtcgcg	gatcggttgcg	gccgtagcc	agtggcaact	ggcaaagcac	actgaacagc	18600
atcgtgggtc	tgggggtgca	atccctgaag	cgccgacgat	gcttctgaat	agctaactgt	18660
tcgtatgtgt	gtcatgtatg	cgtccatgtc	gccgccagag	gagctgctga	gccgccgcgc	18720
gcccgccttc	caagatggct	acccttcga	tgatgcgcga	gtggtcttac	atgcacatct	18780
ggggccagga	cgccctggag	tacctgagcc	ccgggtggtg	gcagtttgcc	cgcgccaccg	18840
agacgtactt	cagcctgaat	aacaagttta	gaaaccccac	ggtggcgcc	acgcacgacg	18900
tgaccacaga	ccggtcccag	cgtttgacgc	tgccgttcat	ccctgtggac	cgtagggata	18960
ctgcgtactc	gtacaaggcg	cggttcaccc	tagctgtggg	tgataaccgt	gtgctggaca	19020
tggtctccac	gtactttgac	atccgcggcg	tgctggacag	gggccctact	tttaagccct	19080
actctggcac	tgccctacaac	gccctggctc	ccaagggtgc	cccaaactcct	tgcaaatggg	19140
atgaagctgc	tactgctctt	gaaataaacc	tagaagaaga	ggacgatgac	aacgaagacg	19200
aagtagacga	gcaagctgag	cagcaaaaaa	ctcacgtatt	tgggcaggcg	ccttattctg	19260
gtataaatat	tacaaaggag	ggtattcaaa	taggtgtcga	aggtcaaaca	cctaaatatg	19320
ccgataaaac	atcttcaacct	gaacctcaaa	taggagaatc	tcagtggtac	gaaactgaaa	19380
ttaatcatgc	agctgggaga	gtccttaaaa	agactacccc	aatgaaacca	tggtacgggt	19440
catatgcaaa	accacaaaat	gaaaatggag	ggcaaggcat	tcttgtaaag	caacaaaatg	19500
gaaagctaga	aagtcaagtg	gaaatgcaat	ttttctcaac	tactgaggcg	accgcaggca	19560
atgggtgataa	cttgactcct	aaagtgggtat	tgtacagtga	agatgtagat	atagaaaccc	19620
cagacactca	tatttcttac	atgcccacta	ttaagggaag	taactcacga	gaactaatgg	19680
gccaaacaatc	tatgcccaac	aggcctaatt	acattgcttt	tagggacaat	tttattgggtc	19740
taattgtatta	caacagcacg	ggtaatatgg	gtgttctggc	gggccaagca	tcgcagtgtga	19800
atgctgttgt	agatttgcaa	gacagaaaca	cagagctttc	ataccagctt	ttgcttgatt	19860
ccattgggtga	tagaaccagg	tacttttcta	tgtggaatca	ggctgttgac	agctatgatc	19920
cagatgttag	aattattgaa	aatcatggaa	ctgaagatga	acttccaaat	tactgctttc	19980
cactgggagg	tgtgattaat	acagagactc	ttaccaaggt	aaaacctaaa	acaggtcagg	20040
aaaatggatg	ggaaaaagat	gctacagaat	tttcagataa	aatgaaata	agagttggaa	20100
ataattttgc	catggaaatc	aatctaaatg	ccaacctgtg	gagaaatttc	ctgtactcca	20160
acatagcgct	gtatttgccc	gacaagctaa	agtacagtcc	ttccaacgta	aaaatttctg	20220
ataaccctaaa	cacctacgac	tacatgaaca	agcgagtgg	ggctcccggg	ttagtggact	20280
gctacattaa	ccttgagca	cgctgggtccc	ttgactatat	ggacaacgtc	aaccccttta	20340
accaccaccg	caatgctggc	ctgcgctacc	gtcctaattg	gctgggcaat	ggtcgctatg	20400
tgcccttcca	catccagggtg	cctcagaagt	tctttgccat	taaaaaacctc	cttctcctgc	20460
cggtgtcata	cacctacgag	tggaaacttca	ggaaggatgt	taacatgggt	ctgcagagct	20520
ccctaggaaa	tgacctaaag	gttgacggag	ccagcattaa	gtttgatagc	atttgccttt	20580
acgccacctt	cttcccctatg	gcccacaaca	ccgcctccac	gcttgaggcc	atgcttagaa	20640
acgacacca	cgaccagtcc	tttaacgact	atctctccgc	cgccaacatg	ctctacccta	20700
taccgcgcaa	cgctaccaac	gtgcccata	ccatccctc	ccgcaactgg	gcggcttttc	20760
gcggctgggc	cttcacgcgc	cttaagacta	aggaaacccc	atcactgggc	tcgggctacg	20820
acccttatta	cacctactct	ggctctatac	cctacctaga	tggaaacctt	tacctcaacc	20880
acacctttaa	gaaggtggcc	attacctttg	actcttctgt	cagctggcct	ggcaatgacc	20940
gcctgcttac	ccccaacgag	tttgaaatta	agcgctcagt	tgacggggag	ggttacaacg	21000
ttgcccagtg	taacatgacc	aaagactggt	tcttggtaca	aatgctagct	aactacaaca	21060
ttggctacca	gggcttctat	atcccagaga	gctacaagga	ccgcatgtac	tccttcttta	21120
gaaacttcca	gcccattgagc	cgtcagggtg	tggtatgatac	taaataacaag	gactaccaac	21180
aggtgggcat	cctacaccaa	cacaacaact	ctggatttgt	tggtacacct	gccccacca	21240
tgccgcaagg	acaggcctac	cctgctaact	tcccctatcc	gcttataggc	aagacgcgag	21300
ttgacagcat	taccagaaaa	aagtttcttt	gcgatcgac	cctttggcgc	atcccattct	21360
ccagtaactt	tatgtccatg	ggcgactca	cagacctggg	ccaaaacctt	ctctacgcca	21420
actccgccca	cgcgctagac	atgacttttg	aggtggatcc	catggacgag	cccaccttct	21480
tttatgtttt	gtttgaagtc	tttgacgtgg	tccgtgtgca	ccggccgcac	cgcgcgctca	21540
tcgaaaccgt	gtacctgcgc	acgcccttct	cgcccgcaa	cgccacaaca	taaagaagca	21600
agcaacatca	acaacagctg	ccgccatggg	ctccagttag	caggaaactga	aagccattgt	21660
caaagatctt	ggttgtgggc	catatttttt	gggcacctat	gacaagcgct	ttccaggctt	21720
tgtttctcca	cacaagctcg	cctgcgccat	agtcaatacg	gccggtcgcg	agactggggg	21780
cgtacactgg	atggcctttg	cctggaaccc	gcactcaaaa	acatgtacc	tctttgagcc	21840
ctttggcttt	tctgaccagc	gactcaagca	ggtttaccag	tttgagtacg	agtcactcct	21900
gcgccgtagc	gccattgctt	cttcccccca	ccgctgtata	acgctggaaa	agtccaccca	21960
aagcgtacag	gggcccact	cgccgcctg	tggtactattc	tgctgcatgt	ttctccacgc	22020
ctttgccaac	tgcccccaaa	ctcccatgga	tcacaacccc	accatgaacc	ttattaccgg	22080
ggtaccacac	tccatgctca	acagtcccca	ggtacagccc	accctgcgtc	gcaaccagga	22140
acagctctac	agcttctctg	agcgccactc	gccctacttc	cgacgccaca	gtgcgcagat	22200
taggagcgcc	acttcttttt	gtcacttgaa	aaacatgtaa	aaataatgta	ctagagacac	22260
tttcaataaa	ggcaaatgct	tttatttgta	cactctcggg	tgattattta	ccccaccct	22320

tgcggtctgc gccgtttaaa aatcaaagg gttctgccgc gcatcgctat ggcgcaactgg 22380  
 caggagacacg ttgcgatact ggtgtttagt gctccactta aactcaggca caaccatccg 22440  
 cggcagctcg gtgaagtttt cactccacag gctgcgcacc atcaccaacg cgtttagcag 22500  
 gtcgggccc gatattctga agtcgcagtt ggggcctccg ccctgcgcgc gcgagttgcg 22560  
 atacacaggg ttgcagcact ggaacactat cagcgcggg tgggtgcacg tggccagcac 22620  
 gctcttgctg gagatcagat ccgcgtccag gtctctccgc ttgctcaggg cgaacggagt 22680  
 caactttggt agctgccttc caaaaagg ggcgtgccca ggctttgagt tgcactcgca 22740  
 ccgtagtggc atcaaaagg gaccgtgccc ggtctggggc ttaggataca gcgcctgcat 22800  
 aaaagccttg atctgcttaa aagccacctg agcctttgcg ccttcagaga agaacatgcc 22860  
 gcaagacttg ccggaaaact gattggccgg acaggccgcg tcgtgcacgc agcaccttgc 22920  
 gtcggtgttg gagatctgca ccacatttcg gcccaccgg ttcttcacga tcttggcctt 22980  
 gctagactgc tccttcagcg cgcgtgccc gttttcgctc gtcacatcca tttcaatcac 23040  
 gtgctcctta tttatcataa tgcttccgtg tagacactta agctcgctt cgatctcagc 23100  
 gcagcgggtc agccacaacg cgcagcccg gggctcgtga tgctttagg tcacctctgc 23160  
 aaacgactgc aggtacgcct gcaggaatcg ccccatcatc ctcgttcagc caggtcttgc 23220  
 ggtgaaggtc agtgcaacc cgcggtgctc ctcgttcagc caggtcttgc atacggccgc 23280  
 cagagcttcc acttggtcag gcagtagttt gaagttcgcc tttagatcgt tatccacgtg 23340  
 gtacttgctc atcagcgcgc gcgcagcctc catgcccttc tcccacgcag acacgatcgg 23400  
 cacactcagc ggggttcata ccgtaatttc actttccgct tcgctgggct cttctcttc 23460  
 ctcttgctc cgcataccac gcgccactgg gctcgtctca ttcagccgc gcactgtgcg 23520  
 ctactctct ttgccatgct tgattagcac cgggtgggtt ctgaaacca ccattttag 23580  
 cgccacatct tctctttctt cctcgctgtc cagcattacc tctggtgatg gcgggcgctc 23640  
 gggcttggga gaaggcgct tctttttctt cttgggcgca atggccaaat ccgcccgcga 23700  
 ggtcgatggc cgcgggcttg gtgtgcgcgg caccagcgcg tcttgtgatg agtcttctc 23760  
 gtctcggac tcgataccgc gctcctccg cttttttggg ggcgcgggg gagggcgcg 23820  
 cgacggggac ggggacgaca cgtcctccat ggttggggga cgtcgcgcgc caccgcgtcc 23880  
 gcgctcgggg gtggtttcgc gctgctcctc tcccgcagt gccatttctt tctcctatag 23940  
 gcagaaaaag atcatggagt cagtcgagaa gaaggacagc ctaaccgccc cctctgagtt 24000  
 cgccaccacc gcctccaccg atgcgcgcaa cgcgcctacc accttccccg tcgaggcacc 24060  
 ccgcttgag gaggaggaag tgattatcga gcaggacca ggtttttaa gcgaagacga 24120  
 cgaggaccgc tcagtaccaa cagaggataa aaagcaagac caggacaacg cagaggcaaa 24180  
 cgaggaacaa gtcgggcggg gggacgaaag gcatggcgac tacctagatg tgggagacga 24240  
 cgtgctgttg aagcatctgc agcgcagtg cgccattatc tgcgacgcgt tgcaagagcg 24300  
 cagcgatgtg ccctcgcca tagcggatgt cagccttgc tacgaacgcc acctattctc 24360  
 accgcgcgta cccccaaac gccaaagaaa cggcacatgc gagcccaacc cgcgcctcaa 24420  
 cttctacccc gtatttgccg tgccagaggt gcttgccacc tatcacatct ttttccaaaa 24480  
 ctgcaagata cccctatcct gccgtgccaa ccgcagccga gcggacaagc agctggcctt 24540  
 gcggcagggc gctgtcatac ctgatatcgc ctgcctcaac gaagtgcgaa aaatctttga 24600  
 gggctcttga cgcgacgaga agcgcgcggc aaacgctctg caacaggaaa acagcgaaaa 24660  
 tgaaagtcac tctggagtgt tgggtggaact cgagggtgac aacgcgcgcc tagccgtact 24720  
 aaaacgcagc atcgaggtca cccactttgc ctaccggca cttaacctac cccccaaggt 24780  
 catgagcaca gtcatgagt agctgatcgt gcgcctgctg cagcccctgg agagggatgc 24840  
 aaatttgcaa gaacaaacag aggagggcct acccgagtt ggcgacgagc agctagcgcg 24900  
 ctggcttcaa acgcgcgagc ctgcccactt ggaggagcga cgcaactaa tgatggccgc 24960  
 agtgctcgtt accgtggagc ttgagtgcac gcagcggtc tttgtgacc cggagatgca 25020  
 gcgcaagcta gaggaacat tgcactacac ctttcgacag ggctacgtac gccagggcctg 25080  
 caagatctcc aacgtggagc tctgcaacct ggtctcctac cttggaattt tgcacgaaaa 25140  
 ccgccttggg caaaacgtgc ttcattccac gctcaagggc gaggcgcgcc gcgactacgt 25200  
 ccgcactgc gtttacttat ttctatgcta cacctggcag acggccatgg gcgtttggca 25260  
 gcagtgcctt gaggagtgc acctcaagga gctgcagaaa ctgctaaagc aaaacttgaa 25320  
 ggacctatgg acggccttca acgagcgctc cgtggccgcg cacctggcgg acatcatttt 25380  
 ccccgaaacg ctgcttaaaa ccctgcaaca ggtctgcca gacttcacca gtcaaagcat 25440  
 gttgcagaac ttaggaact ttatcctaga gcgctcagga atcttgccc ccacctgctg 25500  
 tgcaacttct agcgactttg tgccatttaa gtaccgcgaa tgccctccgc cgctttgggg 25560  
 ccaactgctac cttctgcagc tagccaacta ccttgccctac cactctgaca taatggaaga 25620  
 cgtgagcggg gacgggtctac tggagtgtca ctgtcgtgc aacctatgca cccgcaccg 25680  
 ctccctggtt tgcaattcgc agctgcttaa cgaaagtcaa ggtccgggg ttgaaactca ctcgggggct 25740  
 gcaggggtccc tcgcctgacg aaaagtccgc gaaatttgt acctgaggac taccacgccc acgagattag 25800  
 gtggacgtcg gcttaccttc gcaaatttgt gcccgcgaaa tgcggagctt accgcctgcg tcattaccga 25860  
 gttctacgaa gaccaatccc gcccgcgaaa caacaaagcc cgccaagagt tctgctacg 25920  
 gggccacatt cttggccaat tgcaagccat tgaccoccca ggccttgct tcccaggatg gcacccaaaa 26040  
 aaagggacgg ggggtttact tggaccoccca agcagccgcg ggccttgct tcccaggatg gcacccaaaa 26100  
 gccgcgcgag ccctatcagc agcagccgcg acgaggagga atactgggac agtcaggcag 26160  
 agaagctgca gctgcgcgcg ccaccacgag tgatggaaga ctgggagagc ctgacgagag 26220  
 aggaggtttt ggacgaggag gaggaggaca aaacaccgtc accctcggtc gcattcccct 26280  
 aagcttccga ggtcgaagag gtgtcagacg



cgccggcgcc	ccagaaatcg	gcaaccggtt	ccagcatggc	tacaacctcc	gctcctcagg	26340
cgccgcccgc	actgcccgtt	cgccgaccca	accgtagatg	ggacaccact	ggaaccaggg	26400
ccggtaagtc	caagcagccg	ccgcccgttag	cccaagagca	acaacagcgc	caaggctacc	26460
gctcatggcg	cgggcacaa	aacgccatag	ttgcttgctt	gcaagactgt	gggggcaaca	26520
tctccttcgc	ccgcccgttt	cttctctacc	atcacggcgt	ggccttcccc	cgtaacatcc	26580
tgcattacta	ccgtcatctc	tacagcccat	actgcaccgg	cggcagcggc	agcggcagca	26640
acagcagcgg	ccacacagaa	gcaaaggcga	ccggatagca	agactctgac	aaagcccaag	26700
aaatccacag	cgggcggcagc	agcaggagga	ggagcgctgc	gtctggcgcc	caacgaacce	26760
gtatcgaccc	gcgagcttag	aaacaggatt	tttcccactc	tgtatgctat	atttcaacag	26820
agcagggggc	aagaacaaga	gctgaaaata	aaaaacagg	ctctgcgatc	cctcaccgcg	26880
agctgcctgt	atcacaaaag	cgaagatcag	cttcggcgca	cgctggaaga	cgcgagggtt	26940
ctcttcagta	aatactgcgc	gctgactctt	aaggactagt	ttcgcgccct	ttctcaaatt	27000
taagcgcgaa	aactacgtca	tctccagcgg	ccacaccggg	cgccagcacc	tgctcgtcagc	27060
gccattatga	gcaaggaaat	tcccagcccc	tacatgtgga	gttaccagcc	acaaatggga	27120
cttgcggctg	gagctgcccc	agactactca	accggaataa	actacatgag	cgcgggaccc	27180
cacatgatata	ccggggtcaa	cggaatccgc	gcccaccgaa	accgaattct	cttggaacag	27240
gcggttatta	ccaccacacc	tcgtaataac	cttaatcccc	gtagtgtggc	cgctgccctg	27300
gtgtaccagg	aaagtcccgc	tcccaccact	gtgggtacttc	ccagagacgc	ccaggccgaa	27360
gttcagatga	ctaaactcag	ggcgcgagctt	cgggcgcgct	ttcgtcacag	ggtgcggctcg	27420
cccgggcagg	gtataactca	cctgacaatc	agagggcgag	gtattcagct	caacgacgag	27480
tcgggtgagct	cctcgcttgg	tctccgtccg	gacgggacat	ttcagatcgg	cggcgcgggc	27540
cgctccttcat	tcacgcctcg	tcaggcaatc	ctaactctgc	agacctcgct	ctctgagcgg	27600
cgctctggag	gcattggaac	tctgcaattt	attgaggagt	ttgtgccatc	ggtctacttt	27660
aaccctttct	cgggacctcc	cgggccactat	ccggatcaat	ttattccta	ctttgcagcg	27720
gtaaaggact	cggcggacgg	ctacgactga	taattaagt	gagaggcaga	gcaactgcgc	27780
ctgaaacacc	tggtccactg	tcgcccgcac	aagtgccttg	cccgcgactc	cggtgagttt	27840
tgctactttg	aattgcccga	ggatcatatc	gaggatcttt	gttgccatct	ctgtgctgag	27900
tataataaat	acagaaatta	aaatatactg	gggtctctat	cgccatcctg	taaacgcac	27960
cgtcttcacc	cgcccaagca	aaccaaggcg	aaccttacct	ggtactttta	acatctctcc	28020
ctctgtgatt	tacaacagtt	tcaacccaga	cggagtga	ctacgagaga	acctctccga	28080
gctcagctac	tccatcagaa	aaaacaccac	cctccttacc	tgccgggaac	gtacccttaa	28140
ttaaaagtca	ggcttctctg	atgtcagcat	ctgacttttg	ccagcacctg	tcccgcggat	28200
ttgtttccagt	ccaactacag	cgccccaccc	taacagagat	gaccaacaca	accaacgcgg	28260
ccgcgcgtac	cggacttaca	tctaccacaa	atacacccca	agtttctg	tttgtcaata	28320
actgggataa	cttgggcatg	tggtggttct	ccatagcgct	tatgtttgta	tgcttatta	28380
ttatgtggct	catctgctgc	ctaaagcgca	aacgcgccc	accacccatc	tatagtcca	28440
tcattgtgct	acacccaaac	aatgatggaa	tccatagatt	ggacggactg	aaacacatgt	28500
tcttttctct	tacagtatga	ttaaatgaga	aatttctgtc	aatttctgtc	cagtttattc	28560
agcagcacct	ccttgccctc	ctcccagctc	tggtattgca	gcttctctct	ggctgcaaac	28620
tttctccaca	atctaaatgg	aatgtcagtt	tcctctgtt	cctgtccatc	cgacccact	28680
atcttcatgt	tggtgcagat	gaagcgcgca	agaccgtctg	aagataacct	caaccccgtg	28740
tatccatatg	acacggaaac	cggctctcca	actgtgcctt	ttcttactcc	tccctttgta	28800
tccccaatg	ggtttcaaga	gagtcacct	gggtactct	ctttgcgct	atccgaacct	28860
ctagttacct	ccaatggcat	gcttgcgctc	aaaatgggca	acggcctctc	tctggacgag	28920
gcccggcaacc	ttacctccca	aaatgtaacc	actgtgagcc	cacctctcaa	aaaaaccaag	28980
tcaaacataa	acctggaaat	atctgcaccc	ctcacagtta	cctcagaagc	cctaactgtg	29040
gctgcgcgg	cacctcta	ggtcgcgggc	aacacactca	ccatgcaatc	acaggccccg	29100
ctaaccgtgc	acgactccaa	acttagcatt	gccaccaca	gacccctcac	agtgtcagaa	29160
ggaaagctag	ccctgcaaac	atcaggcccc	ctcaccacca	ccgatagcag	tacccttact	29220
atcactgcct	cacccctct	aactactgcc	actggtagct	tgggcattga	cttgaaagag	29280
cccattttata	cacaaaatgg	aaaactagga	ctaaagtacg	gggctccttt	gcatgtaaca	29340
gacgacctaa	acactttgac	cgtagcaact	ggtccagggtg	tgactattaa	taatacttcc	29400
ttgcaaaacta	aagtactagg	agccttgggt	tttgattcac	aaggcaatat	gcaactta	29460
gtagcaggag	gactaaggat	tgattctcaa	aacagacgcc	ttatacttga	tggtagtatt	29520
ccgtttgatg	ctcaaaacca	actaaatcta	agactaggac	agggcctct	ttttataaac	29580
tcagcccaca	acttggaat	taactacaac	aaaggccttt	acttgtttac	agcttcaaac	29640
aattccaaaa	agcttgaggt	taacctaagc	actgccaagg	ggttgatggt	tgacgctaca	29700
gccatagcca	ttaatgcagg	agatgggctt	gaatttgggt	cacctaatgc	accaaacaca	29760
aatccctca	aaacaaaaat	tggccatggc	ctagaatttg	attcaaacaa	ggctatgggt	29820
cctaaactag	gaactggcct	tagttttgac	agcacagggtg	ccattacagt	aggaaacaaa	29880
aataatgata	agctaacttt	gtggaccaca	ccagctccat	ctcctaactg	tagactaaat	29940
gcagagaaag	atgctaact	tactttgggt	tttaacaaaat	gtggcagtc	aatacttgct	30000
acagtttccag	ttttggctgt	tcaaggcagt	ttggctccaa	tatctggaac	agttcaaa	30060
gctcatctta	ttataagatt	tgacgaaaat	ggagtgtac	taaacaattc	cttctggac	30120
ccagaatatt	ggaacttttag	aaatggagat	cttactgaag	gcacagccta	tacaaacgct	30180
gttggaattta	tgccctaacct	atcagcttat	ccaaaatctc	acggtaaaac	tgccaaaagt	30240



```

aacattgtca gtcaagttta cttaaacgga gacaaaacta aacctgtaac actaaccatt 30300
acactaaacg gtacacagga aacaggagac acaactccaa gtgcatactc tatgtcattt 30360
tcatgggact ggtctggcca caactacatt aatgaaatat ttgccacatc ctcttacact 30420
ttttcataca ttgcccaaga ataaagaatc gtttgtgtta tgtttcaacg tgtttatttt 30480
tcaattgcag aaaatttcaa gtcatttttc attcagtagt atagccccac caccacatag 30540
cttatacaga tcaccgtacc ttaatcaaac tcacagaacc ctagtattca acctgccacc 30600
tccctcccaa cacacagagt acacagtcct ttctccccg ctggccttaa aaagcatcat 30660
atcatgggtg acagacatat tcttaggtgt tatattccac acggtttcct gtcgagccaa 30720
acgctcatca gtgatattaa taaactcccc gggcagctca cttaaagttca tgcgctgtc 30780
cagctgctga gccacaggct gctgtccaac ttgcggttgc ttaacgggcg gcgaaggaga 30840
agtccacgct tacatggggg tagagtcata atcgtgcac aggatagggc ggtggtgctg 30900
cagcagcgcg cgaataaact gctgccgcg ccgctccgtc ctgcaggaat acaacatggc 30960
agtggtctcc tcagcgatga ttgcgaccgc ccgcagcata aggcgccttg tcctccgggc 31020
acagcagcgc acctgatct cacttaaatc agcacagtaa ctgcagcaca gcaccacaat 31080
attgttcaaa atcccacagt gcaaggcgct gtatccaaag ctcatggcgg ggaccacaga 31140
acccacgtgg ccatacacc acaagcgtag gtagattaag tggcgacccc tcataaacac 31200
gctggacata aacattacct cttttggcat gttgtaattc accacctccc ggtaccatat 31260
aaacctctga ttaaacatgg cgccatccac caccatccta aaccagctgg ccaaaacctg 31320
cccgcgggct atacactgca gggaaccggg actggaacaa tgacagtggg gagcccagga 31380
ctcgtaacca tggatcatca tgctcgtcat gatataatg ttggcacaac acaggcacac 31440
gtgcatacac ttccctcagga ttacaagctc ctcccgcgtt agaaccatat cccagggaac 31500
aaccatttcc tgaatcagcg taaatccac actgcaggga agacctcgca cgtaactcac 31560
gttgtgcatt gtcaaagtgt tacattcggg cagcagcgga tgatcctca gtatggtagc 31620
gcgggtttct gtctcaaaag gaggtagacg atccctactg tacggagtgc gccgagacaa 31680
ccgagatcgt gttggtcgta gtgtcatgcc aaatggaacg ccggacgtag tcatatttcc 31740
tgaagcaaaa ccagggtgcgg gcgtgacaaa cagatctgcg tctccggtct cgccgcttag 31800
atcgctctgt gtagtagttg tagtatatcc actctctcaa agcatccagg cgccccctgg 31860
cttcgggttc tatgtaaact ccttcatgcy ccgctgcctt gataacatcc accaccgag 31920
aataagccac acccagccaa cctacacatt cgttctgcga gtcacacacg ggaggagcgg 31980
gaagagctgg aagaacatg tttttttttt tattccaaaa gattatccaa aacctcaaaa 32040
tgaagatcta ttaagtgaac gcgctcccc ctgggtggcg ggtcaaaact tacagccaaa 32100
gaacagataa tggcatttgt aagatgttgc acaatggctt ccaaaaggca aacggccctc 32160
acgtccaagt ggacgtaaag gctaaacctt tcagggtgaa tctcctctat aaacattcca 32220
gcaccttcaa ccatgcccaa ataattctca tctcgccacc ttctcaatat atctctaagc 32280
aaatcccgaa tattaagtc ggccattgta aaaatctgct coagagcgcc ctccaccttc 32340
agcctcaagc agcgaatcat gattgcaaaa attcagggtc ctacacagacc tgtataagat 32400
tcaaaagcgg aacattaaca aaaataccgc gatcccgtag gtcccttcgc agggccagct 32460
gaacataatc gtgcaggtct gcacggacca gcgcggccac ttccccgcca ggaaccttga 32520
caaaagaacc cacactgatt atgacacgca tactcgagac tatgctaacc agcgtagccc 32580
cgatgtaagc tttgttgcac gggcggcgat ataaaatgca agtgctgct caaaaaatca 32640
ggcaaagcct cgcgcaaaaa agaaaagcaca tcgtagtcat gctcatgcag ataaaggcag 32700
gtaagctccg gaaccaccac agaaaaagac accatttttc tctcaaacad gtctgcgggt 32760
ttctgcataa acacaaaaata aaataacaaa aaaacattta aacattagaa gcctgtctta 32820
caacaggaaa aacaaccctt ataagcataa gacggactac ggcatgccc gcgtgaccgt 32880
aaaaaaactg gtcaccgtga ttaaaaagca ccaccgacag ctccctcggtc atgtccggag 32940
tcataatgta agactcggtg aacacatcag gttgattcat cggtcagtgc taaaaagcga 33000
ccgaaatagc ccgggggaat acatacccgc aggcgtagag acaacattac agccccata 33060
gtaggtataa caaaattaat aggagagaaa aacacataaa cacctgaaaa accctcctgc 33120
ctaggcaaaa tagcaccctc ccgctccaga acaacataca gcgcttca cgcgcagcct 33180
aacagtcagc cttaccagta aaaaagaaaa cctattaaaa aaacaccact cgacacggca 33240
ccagctcaat cagtcacagt gtaaaaaagg gccaagtgca gagcgagtat atataggact 33300
aaaaaatgac gtaacgggtta aagtccacaa aaaacacca gaaaaccgca cgcgaacctc 33360
cgcccagaaa cgaaagccaa aaaaccaca acttctctca atcgtcactt ccgttttccc 33420
acgttacgta acttccatt ttaagaaaac tacaattccc aacacataca agttactccg 33480
ccctaaacc tacgtcacc gcgccgttcc cagccccgc gccacgtcac aaactccacc 33540
ccctcattat catattggct tcaatccaaa ataaggtata ttattgatga tg 33592

```

<210> 2

<211> 34341

<212> DNA

<213> Adenovirus subgroup C

<400> 2

```

catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60
ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagtagtggt gcggaagtgt 120
gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgtttttg 180

```

```

gtgtgcgcgc gtgtacacag gaagtgacaa ttttcgcgcgc gtttttaggcg gatgtttgtag 240
taaattttggg cgtaacccgag taagattttgg ccatttttcgc gggaaaactg aataagaggga 300
agtgaatct gaataatttt gtgttactca tagcgcgtaa tattttgtcta gggccgcggg 360
gactttgacc gtttacgtgg agactcgcgc aggtgttttt ctcaggtgtt ttccgcgttc 420
cgggtcaaaag ttggcggttt attattatag tcagctgacg tgtagtgat ttatacccg 480
tgagttcctc aagagccac tcttgagtg cagcgagtag agttttctcc tccgagccgc 540
tccgacaccg ggaactgaaa tgagacatga ggtactggct gataatcttc cacctcctag 600
ccattttgaa ccacctaccc ttcacgaact gtatgattta gacgtgacgg cccccgaaga 660
tcccaacgag gaggcggttt cgcagatttt tcccgaactc gtaatgttgg cgtgacgga 720
agggattgac ttactcactt ttccgcgcgc ccccggttct ccggagccgc ctcacctttc 780
ccggcagccc gagcagccgg agcagagagc cttgggtccg gtttgccacg aggtggctt 840
tccacccagt gacgacgagg atgaagaggg tgaggagttt gtgttagatt atgtggagca 900
ccccgggcac ggttgacggt cttgtcatta tcaccggagg aatacggggg acccagatat 960
tatgtgttcg ctttgctata tgaggacctg tggcatgttt gtctacagta agtgaaaatt 1020
atgggcagtg ggtgataag tggtgggttt ggtgtggtaa tttttttttt aattttttaca 1080
gtttttgtgt ttaaagaatt ttgtattgtg atttttttaa aaggtcctgt gtctgaacct 1140
gagcctgagc ccgagccaga accggagcct gcaagaccta cccgcgcgtc taaaatggcg 1200
cctgctatcc tgagacgccc gacatcacct gtgtctagag aatgcaatag tagtacggt 1260
agctgtgact ccggtccttc taacacacct gtctagatac acccggtggt cccgctgtgc 1320
cccattaaac cagttgcctg gagagttggt gggcgctgcc aggtgtgga atgtatcgag 1380
gacttgctta acgagcctgg gcaacctttg gacttgagct gtaaacgccc caggccataa 1440
ggtgtaaacc tgtgattgag tgtgtggtta acgcctttgt ttgctgaatg agttgatgta 1500
agtttaataa aggggtgagat aatgtttaac ttgcatggcg tgttaaattg ggcggggctt 1560
aaaggggtata taatgcgcgc tgggctaata ctgacctcat ggaggtttg 1620
gagtggttgg aagatttttc tgctgtgcgt aacttgctgg aacagagctc taacagtacc 1680
tcttggtttt ggaggtttct gtggggctca tcccaggcaa agttagtctg cagaattaa 1740
gaggattaca agtgggaatt tgaagagctt ttgaaacctc gtggtgagct gtttgattct 1800
ttgaatctgg gtacccaggg ccttttccaa gagaaggtca tcaagacttt ggatttttcc 1860
acaccggggc gcgctgcggc tgctgttgct tttttgagtt ttataaagga taaatggagc 1920
gaagaaaccc atctgagcgg ggggtacctg ctggattttc tggccatgca tctgtggaga 1980
gcggttgtga gacacaagaa tcgcctgcta ctgttgtctt ccgtccgccc ggcgataata 2040
ccgacggagg agcagcagca gcagcaggag gaagccaggc ggcggcgcca ggagcagagc 2100
ccatggaacc cgagagccgg cctggacctt cgggaatgaa tggtgtacag gtggtgaac 2160
tgtatccaga actgagacgc attttgacaa ttacagagga tgggcagggg ctaaaggggg 2220
taaagaggga gcggggggt tgtgaggcta cagaggaggc taggaatcta gcttttagct 2280
taatgaccag acaccgtcct gagtgtatta cttttcaaca gatcaaggat aattgcgcta 2340
atgagcttga tctgctggcg cagaagtatt ccatagagca gctgaccact tactggctgc 2400
agccagggga tgattttgag gaggctatta ggtatattgc aaaggtggca cttaggccag 2460
atgtcaagta caagatcagc aaacttgtaa atatcaggaa ttgttgctac atttctggga 2520
acggggccga ggtggagata gatacggagg atagggtggc ctttagatgt agcatgataa 2580
atatgtggcc ggggggtgctt ggcattggac ggggtggtat tatgaatgta aggtttactg 2640
gcccccaatt tagcgttacg gttttcctgg ccaataccaa ccttatccta cacggtgtaa 2700
gcttctatgg gtttaacaat acctgtgtgg tgtgtcgccc caaaagcagg gcttcaatta 2820
gtgcttttta ctgctgctgg aaggggtggg gtatcctgtc tgagggtaac tccagggtgc 2880
agaaatgcct ctttgaaagg tgtaccttgg gtatcctgtc tgagggtaac gctgtgatta 2940
gccacaatgt ggcctccgac tgtggttgc tcatgctagt gaaaagcgtg acctgctcgg 3000
agcataacat ggtatgtggc aactgcgagg acagggcctc ccactctcgc aaggcctggc 3060
acggcaactg tcacctgctg aagaccattc acgtagccag tttgggtaac agggggggg 3120
cagtggttga gcataacata ctgacctgct gttccttgca tttgggtaac cccgagagca 3180
tgttctacc ttaccaatgc aatttgagtc acactaagat attgcttgag aaggtgctga 3240
tgtccaaggt gaacctgaac ggggtgtttg acatgaccat gaagatctgg aaggtgctga 3300
ggtacgatga gacccgcacc aggtgcagac cctgcgagtg tggcggtaaa catattagga 3360
accagcctgt gatgctggat gtgaccgagg agctgaggcc cgatcacttg gtgctggcct 3420
gcacccgcgc tgagtttggc tctagcgatg aagatacaga ttgaggtact gaaatgtgtg 3480
ggcgtggctt aagggtggga aagaatatat aagggtgggg tcttatgtag ttttgtatct 3540
gttttgacg agccgcgcgc gccatgagca ccaactcgtt tgatggaagc attgtgagct 3600
catatttgac aacgcgcagc ccccatggg cctgtactac cttgacctac gagaccgtgt 3660
gcattgatgg tcgcccgcgc ctgcccgcga gcagcctccg ccgcgccttc agcgcgtgca gccaccgccc 3720
ctggaacgcc gttggagact gctttcctga gccgcgttgc aagcagtgca gcttcccgtt 3780
gcgggattgt gactgacttt gctttcctga ttttgacaca attggattct ttgacccggg 3840
catccgcccg cgatgacaag ttgacggctc atctgcgcca gcaggtttct gccctgaagg 3900
aacttaatgt cgtttctcag cagctgttgg gtttaaaaca taaataaaaa accagactct gtttgattt 3960
cttccctccc tcccaatgag gtttaaaaca taggggtttt gcgcgcgcgg tagggccggg 4020
ggatcaagca agtgtcttgc tgtctttatt taggggtttt caggacgtgg taaaggtgac 4080
accagcggtc tcggtcgttg aggtcctgt gtattttttc caggacgtgg caccactgca 4140
tctgagtggt cagatacatg ggcataagcc cgtctctggg gtggaggtag

```

gagcttcatg	ctgcgggggtg	gtgttgtaga	tgatccagtc	gtagcaggag	cgctgggctg	4200
ggtgcctaaa	aatgtctttc	agtagcaagc	tgattgccag	gggcaggccc	ttggtgtaag	4260
tgtttacaaa	gcggttaagc	tgggatgggt	gcatacgtgg	ggatatgaga	tgcatcttgg	4320
actgtatttt	taggttggct	atgttcccag	ccatatccct	ccggggattc	atgttgtgca	4380
gaaccaccag	cacagtgtat	ccggtgcact	tgggaaatth	gtcatgtagc	ttagaaggaa	4440
atgctgtgaa	gaacttggag	acgcccttgt	gacctccaag	atthttccatg	cattcgtcca	4500
taatgatggc	aatgggcccc	cgggcgggcg	cctggggcaa	gatathttctg	ggatcactaa	4560
cgatcatagt	gtgttccagg	atgagatcgt	cataggccat	thttacaaaag	cgcgggcgga	4620
gggtgccaga	ctgcggtata	atggttccat	ccggcccagg	ggcgtagtta	ccctcacaga	4680
tttgcattht	ccacgcttht	agttcagatg	gggggatcat	gtctacctgc	ggggcgatga	4740
agaaaacggt	ttccggggta	ggggagatca	gctgggaaga	aagcaggtht	ctgagcagct	4800
gcgacttacc	gcagccgggt	ggcccgtaaa	tcacacctat	taccgggtgc	aactggtagt	4860
taagagagct	gcagctgccg	tcataccctga	gcaggggggc	cacttcgtta	agcatgtccc	4920
tgactcgcgt	gtthttccctg	accaaattccg	ccagaaggcg	ctcgccgccc	agcgatagca	4980
gttcttgcaa	ggaagcaaa	thtttcaacg	gtttgagacc	gtccgcccga	ggcatgctth	5040
tgagcgttht	accaagcagt	tcagggcggt	cccacagctc	ggtcacctgc	tctacggcat	5100
ctcgatccag	catatctcct	cgthttcgcg	gttggggcg	ctthtcgctgt	acggcagtag	5160
tcggtgctcg	tcagacggg	ccagggtcat	gtctthttcc	gggcgcagg	tcctcgtcag	5220
cgtagtctgg	gtcacggtga	aggggtgcgc	tcgggctgc	gcgctggcca	gggtgcgctt	5280
gaggctggtc	ctgctggtgc	tgaagcgctg	ccggtcttcg	ccctgcgcgt	cgccaggtga	5340
gcatttgacc	atgggtgtcat	agtccagccc	ctccgcggcg	tgcccttgg	cgcgagctt	5400
gcccttgga	gaggcgccgc	acgaggggca	gtgcagactt	ttgagggcgt	agagcttggg	5460
gcgagaaat	accgattccg	gggagtaggc	atccgcgcgc	caggccccgc	agacggtctc	5520
gcatttccag	agccaggtga	gctctggccg	ttcggggtca	aaaaccaggt	ttcccccatg	5580
ctthttgatg	cgthttcttac	ctctggttht	catgagccgg	tgtccacgct	cggtgacgaa	5640
aaggctgtcc	gtgtccccgt	atacagactt	gagaggcctg	tcctcgagcg	gtgtccgcg	5700
gtcctcctcg	tatagaaact	cggaccactc	tgagacaaag	gctcgcgtcc	aggccagcac	5760
gaaggaggct	aagtgggagg	ggtagcggtc	gttgtccact	agggggtcca	ctcgctccag	5820
ggtgtgaaga	cacatgtcgc	cctcttcggc	atcaaggaa	gtgattggtt	tgtagctgta	5880
ggccacgtga	ccgggtgttc	ctgaaggggg	gctataaaa	ggggtggggg	cgcgcttcgt	5940
ctcactctct	tcgcgatcgc	tgtctgcgag	ggccagctgt	tggggtgagt	actccctctg	6000
aaaagcgggc	atgacttctg	cgctaagatt	gtcagthttc	aaaaacgagg	aggatttgat	6060
attcacctgg	ccgcgggtga	tgctthttgag	ggtggccgca	tcctctggtt	cagaaaagac	6120
aatctthttg	ttgtcaaagct	tggtggcaca	cgaccgtag	agggcgthttg	acagcaactt	6180
ggcgatggag	cgagggthtt	ggtthttgtc	gcgatcggcg	cgctccttgg	ccgcgatgth	6240
tagctgcacg	tattcgcgcg	caacgcaccg	ccattcgga	aagacggtgg	tgcgctcgtc	6300
gggcaccagg	tgacgcgcgc	aaccgcggtt	gtgcagggtg	acaagggtcaa	cgctggtggc	6360
tacctctccg	cgtaggcgct	cgthgggtcca	gcagaggcgg	ccgcccttgc	gcgagcagaa	6420
tgccgttagg	gggtctagct	cggtctcgtc	cggggggtct	gcgtccacgg	taaaagcccc	6480
gggcagcagg	cgcgctcgca	agtagtctat	cttgcatcct	tgcaagtcta	gcgcctgctg	6540
ccatgcgcgg	gcggcaagcg	cgcgctcgta	tggtttgagt	gggggacccc	atggcatggg	6600
gtgggtgagc	gcggaggcgt	acatgccgca	aatgtcgtaa	acgtagaggg	gctctctgag	6660
tattccaaga	tatgtagggt	agcatcttcc	accgcggatg	ctggcgcgca	cgtaactcgt	6720
tagthtctgc	gaggagcgga	ggaggtcggg	accgaggttg	ctacggggcg	gctgctctgc	6780
tcggaagact	atctgcctga	agatggcatg	tgagttggat	gatattggtt	gacgctggaa	6840
gacgttgaag	ctggcgctctg	tgagacctac	cgcgtcacgc	acgaaggagg	cgtaggagtc	6900
gcgcagcttg	ttgaccagct	cggcgggtgac	ctgcacgtct	agggcgagct	agtcacgggt	6960
ttccttgatg	atgtcatact	tatcctgtcc	ctthttthttc	cacagctcgc	ggttgaggac	7020
aaactcttct	cggtctthttc	agtaactctt	gatcggaaac	ccgtcggcct	ccgaacggtg	7080
agagcctagc	atgtagaact	ggttgacggc	ctggtagggc	cagcatccct	thttctacggg	7140
tagcgcgat	gcctgcgcgg	ccttcgggag	cgagggtgtg	gtgagcgcaa	agggtgccct	7200
gaccatgaat	ttgaggtact	ggtatttgaa	gtcagtgctg	tcgcatccgc	cctgctccca	7260
gagcaaaaag	tcggtgcgct	thttggaacg	cggatttggc	agggcggaag	tgacatcgth	7320
gaagagtatc	thttccgcgc	gaggcataaa	gttgcgtgtg	atgcggaagg	gtcccgccac	7380
ctcggaacgg	ttgttaatta	cctggggcggc	gagcacgata	tcgtcaaagc	cgthgatgth	7440
gtggcccaca	atgtaaagth	ccaagaagcg	cgggatgccc	ttgatggaa	gcaaththtt	7500
aagthtctcg	taggtgagct	cttcagggga	gctgagcccg	tgctctgaaa	gggcccagtc	7560
tgcaagatga	gggttggaag	cgacgaatga	gtccacaggg	tcacggggcca	ttagcattht	7620
cagggtggtc	cgaaaggthc	taaaactggcg	acctatggcc	atththttctg	gggtgatgca	7680
gtagaaggta	agcggtctct	gttcccagcg	gtcccatcca	aggttcgcgg	ctaggtctcg	7740
cgcggcagtc	actagaggct	catctccgcc	gaacttcatg	accagcatga	agggcacgag	7800
ctgcttccca	aaggccccca	tccaagtata	ggtctctaca	tcgtaggtga	caaagagacg	7860
ctcggtcgga	ggatgcgagc	cgatcgggaa	ctgctggatc	tcccgcacc	aattggagga	7920
gtggctattg	atgtggtgaa	agtagaagtc	cctgcgacgg	gccgaacact	cgthgctggc	7980
thttgtaaaaa	cgthgcgcagt	actggcagcg	gtgcacgggc	tgtacatcct	gcacgaggtt	8040
gacctgacga	ccgcgcacaa	ggaagcagag	tgggaathttg	agccccctcg	ctggcggtt	8100

tggtggtg	tcttctactt	cggtgcttg	tccttgaccg	tctggtgct	cgaggggagt	8160
tacggtgat	cggaccacca	cgccgcgcga	gcccacagtc	cagatgtccg	cgcgcgcg	8220
tcggagcttg	atgacaacat	cgcgagatg	ggagctgtcc	atggtctgga	gctcccgcg	8280
cgtcagggtca	ggcgggagct	cctgcaggtt	tacctcgc	agacgggtca	gggcgcggc	8340
tagatccagg	tgatacctaa	tttccagggg	ctggttggtg	gcggcgctga	tggttgcaa	8400
gaggccgcat	ccccgcggcg	cgactacggt	accgcgcggc	gggcggtggg	ccgcgggggt	8460
gtccttggtg	gatgcatcta	aaagcggtga	cgcgggcgag	cccccgagg	tagggggggc	8520
tccggacccg	ccgggagagg	gggcaggggc	acgtcggcgc	cgcgcgcg	caggagctgg	8580
tgctgcgcgc	gtaggttgct	ggcgaacgcg	acgacgcggc	ggttgatctc	ctgaatctgg	8640
cgctctcg	tgaagacgac	gggcccgtg	agcttgagcc	tgaaagagag	ttcgacagaa	8700
tcaatttcg	tgctgtgac	ggcgccctgg	cgcaaatct	cctgcacgtc	tcctgagttg	8760
tcttgatagg	cgatctcggc	catgaactgc	tcgatctctt	cctcctggag	atctcccgct	8820
ccggtctgct	ccacggtggc	ggcgaggtcg	ttggaaatgc	gggccatgag	ctgcgagaag	8880
gcgttgaggc	ctccctcggt	ccagacgcgg	ctgtagacca	cgcccccttc	ggcatcgcgg	8940
gcgcgcagta	ccacctgcgc	gagattgagc	tcacacgtcc	gggcgaagac	ggcgtagttt	9000
cgcaggcgct	gaaagaggtg	gttgaggggtg	gtggcggtgt	gttctgccac	gaagaagtac	9060
ataaccacgc	gtcgcaacgt	ggattcgttg	atatccccca	aggcctcaag	gcgctccatg	9120
gcctcgtaga	agtcacgcgc	gaagttgaaa	aactgggagt	tgcgcgccga	cacggttaac	9180
tcctctctca	gaagacggat	gagctcggcg	acagtgtcgc	gcacctcgcg	ctcaaaggct	9240
acagggcgct	cttcttcttc	ttcaatctcc	tcttccataa	gggcctcccc	ttcttcttct	9300
tctggcgcg	gtgggggag	ggggacacgc	cggcgacgac	ggcgacccgc	gaggcggtcg	9360
acaaagcgct	cgatcatctc	cccgcgcgca	cggcgcagtg	tctcggtgac	ggcgcgccgc	9420
ttctcgcggg	ggcgaggttg	gaagacgcgc	cccgctcatgt	cccggttatg	ggttgcggg	9480
gggctgcat	gcggcagggg	tacggcgcta	acgatgcac	tcaacaattg	ttgtgtaggt	9540
actccgcgc	cgaggacact	gagcgagtc	gcacgcacgc	gatcggaata	cctctcgaga	9600
aaggcgctca	accagtcaca	gtcgcaaggt	aggctgagca	ccgtggcggg	cggcagcggg	9660
cggcgggtcg	ggttggttct	ggcgaggtg	ctgctgatga	tgtaattaaa	gtaggcggtc	9720
ttgagacggc	ggatggtcga	cagaagcacc	atgtccttgg	gtccggcctg	ctgaatgcgc	9780
aggcggtcgg	ccatgcccc	ggcttcggtt	tgacatcggc	gcaggtcttt	gtagtagtct	9840
tgcatgagcc	tttctaccgg	cacttcttct	tctccttctc	cttgtcctgc	atctcttgca	9900
tctatcgctg	cggcggcggc	ggagtttggt	cgtaggtggc	gccctcttcc	tcccatgcgt	9960
gtgaccccca	agccccctcat	cggtggaagc	agggttaggt	cggcgacaac	gcgtcgggt	10020
aatatggcct	gctgcacctg	cgtgagggta	gactggaagt	catccatgtc	cacaaagcgg	10080
tggtggtg	ccgtggtgat	ggtgtaagt	cagtgtggca	taacggacca	gttaacgggtc	10140
tggtgacccg	gctgcgagag	ctcggtgtac	ctgagacgcg	agtaagccct	cgagtcaaat	10200
acgtagtcgt	tgcaagtccg	caccaggtac	tggtatccca	ccaaaaagtg	cggcggcggc	10260
tggcggtaga	ggggccagcg	tagggtggcc	ggggtcctgg	gggcgagatc	ttccaacata	10320
aggcgatgat	atccgtagat	gtacctggac	atccaggtga	tgccggcggc	ggtggtggag	10380
gcgcgcggaa	agtgcgggac	gcggttccag	atgttgcgca	gcggcaaaaa	gtgctccatg	10440
gtcgggacgc	tctggccggt	caggcgcgcg	caatcggtga	cgctctagcg	tgcaaaagga	10500
gagcctgtaa	gcgggcaactc	ttccgtgggtc	tggtggataa	attcgcaagg	gtatcatggc	10560
ggacgacccg	ggttcgagcc	ccgtatccgg	ccgtcccgcc	tgatccatgc	ggttacgcgc	10620
cgctgtcgga	accaggtgtg	gcgacgtcag	acaacggggg	agtgtcctct	ttggtctctc	10680
tccaggcgcg	cggtgctgctg	cgctagcttt	tttggccact	ggccgcgcgc	agcgtaagcg	10740
gttaggctgg	aaagcgaaag	cattaagtgg	ctcgctccct	gtagccggag	ggttattttc	10800
caagggttga	gtcgcgggac	ccccggttcg	agtctcggac	cgcccgagct	gcggcggaacg	10860
ggggtttg	tccccgtcat	gcaagacccc	gcttgcaaat	tcctccggaa	acagggacga	10920
gccccctttt	tgcttttccc	agatgcatcc	ggtgctcg	cagatgcgc	ccccctctca	10980
gcagcgga	gagcaagagc	agcggcagac	atgcagggca	ccctccctc	ctcctaccgc	11040
gtcaggagg	gcgacatccg	cggttgacgc	ggcagcagat	ggtgattacg	aacccccgcg	11100
gcgcggggcc	cggcactacc	tggacttgga	ggaggcgag	ggcctggcgc	ggctaggagc	11160
gccctctctc	gagcgttacc	caagggtgca	gctgaagcgt	gatacgcgtg	aggcgtacgt	11220
gccgcggcag	aacctgtttc	gcgaccgcga	gggagaggag	cccaggagga	tgccgggatcg	11280
aaagtccac	gcagggcgcg	agctgcggca	tggcctgaat	cgcgagcggt	tgctgcgcga	11340
ggaggacttt	gagcccagcg	cgcaaccgcg	gattagtccc	gcgcgcgcac	acgtggcggc	11400
cgccgacctg	gtaaccgcat	acgagcagac	ggtgaaccag	gagattaact	ttcaaaaaag	11460
ctttaacaac	cacgtgcgta	cgcttggtgc	gcgcgaggag	gtggctatag	gactgatgca	11520
tctgtgggac	tttgtaagcg	cgctggagca	aaacccaaat	agcaagccgc	tcattggcgca	11580
gctgttctct	atagtgcagc	acagcaggga	caacgaggca	ttcagggatg	cgctgctaaa	11640
catagtagag	cccagggg	gctggctgct	cgatttgata	aacatctctg	agagcatagt	11700
ggtgcaggag	cgagcttga	gcctggctga	caaggtggcc	gccatcaact	attccatgct	11760
tagcctgggc	aagttttacg	cccgcaagat	ataccatacc	ccttacgttc	ccatagacaa	11820
ggaggtaaa	atcgaggggt	tctacatgcg	catggcgctg	aaggtgctta	ccttgagcga	11880
cgacctgggc	gtttatcgca	acgagcgc	ccacaaggcc	gtgagcgtga	gccggcgcg	11940
cgagctcagc	gaccgcgagc	tgatgcacag	cctgcaaaag	gccctggctg	gcacgggcag	12000
cggcgataga	gaggccgag	cctactttga	cgccggcgct	gacctgcgct	gggccccaa	12060

ccgacgcgcgc	ctggaggcag	ctggggcccg	acctgggctg	gcgggtggcac	ccgcgcgcgc	12120
tggcaacgtc	ggcggcgctg	aggaatatga	cgaggacgat	gagtacgagc	cagaggacgg	12180
cgagtactaa	gcgggtgatg	ttctgatcag	atgatgcaag	acgcaacgga	cccggcggtg	12240
cgggcggcgc	tgcagagcca	gccgtccggc	cttaactcca	cggacgactg	gcgccaggtc	12300
atggaccgca	tcatgtcgt	gactgcgcgc	aatcctgacg	cggtccggca	gcagccgcag	12360
gccaaaccggc	tctccgcaat	tctggaagcg	gtgggtcccg	cgcgcgcaaa	ccccacgcac	12420
gagaaggtgc	tggcgatcgt	aaacgcgctg	gccgaaaaca	gggccatccg	gcccgcagag	12480
gccggcctgg	tctacgacgc	gctgcttcag	cgcgtggctc	gttacaacag	cgccaacgtg	12540
cagaccaacc	tggaccggct	ggtgggggat	gtgcgcgagg	ccgtggcgca	gcgtgagcgc	12600
gcgcagcagc	agggcaacct	gggtcccatg	gttgactacta	acgccttcct	gagtacacag	12660
cccgccaaacg	tgcgcggggg	acaggaggac	tacaccaact	ttgtgagcgc	actgcggcta	12720
atgggtgactg	agacaccgca	aagtgaggtg	taccagtctg	ggccagacta	ttttttccag	12780
accagtagac	aaggcctgca	gaccgtaaac	ctgagccagg	ctttcaaaaa	cttgacgggg	12840
ctgtgggggg	tgcgggctcc	cacaggcgac	cgcgcgaccg	tgtctagctt	gctgacgccc	12900
aaactcgcgc	tgttgctgct	gctaataagc	cccttcacgg	acagtggcag	cgtgtcccg	12960
gacacatacc	taggtcactt	gctgacactg	taccgcgagg	ccataggtca	ggcgcatgtg	13020
gacgagcata	ctttccaggga	gattacaagt	gtcagccgcg	cgctggggca	ggaggacacg	13080
ggcagcctgg	aggcaacctt	aaactacctg	ctgaccaacc	ggcggcagaa	gatccccctg	13140
ttgcacagt	taaacagcga	ggaggagcgc	attttgcgct	acgtgcagca	gagcgtgagc	13200
cttaacctga	tgcgcgacgg	ggtaacgccc	agcgtggcgc	tggacatgac	gcgcgcgaac	13260
atggaaccgg	gcatgtatgc	ctcaaaccgg	ccgtttatca	accgccta	ggactacttg	13320
catcgcgcgg	ccgcctgtaa	ccccgagtat	ttcaccaatg	ccatcttgaa	cccgcactgg	13380
ctaccgcccc	ctgggtttcta	caccggggga	ttcgagggtg	ccgagggtaa	cgatggattc	13440
ctctgggagc	acatagacga	cagcgtgttt	tccccgcaac	cgcagaccct	gctgaggttg	13500
caacagcgcg	agcaggcaga	ggcggcgctg	cgaaaggaaa	gcttccgcag	gccaaagcgc	13560
ttgtccgatc	taggcgctgc	ggccccgcgg	tcagatgcta	gtagccatt	tccaagcttg	13620
atagggtctc	ttaccagcac	tcgcaccacc	cgccccgcgc	tgtctggcga	ggaggagtac	13680
ctaaacaact	cgcgtgctga	gccgcagcgc	gaaaaaaacc	tgctccggc	atttcccaac	13740
aacgggatag	agagcctagt	ggacaagatg	agtagatgga	agacgtacgc	gagggagcac	13800
agggacgtgc	caggccccgcg	cccgcaccac	cgctcgtcaa	ggcacgaccg	tcagcggggt	13860
ctggtgtggg	aggacgatga	ctcggcagac	gacagcagcg	tcctggattt	gggaggaggt	13920
ggcaaccctg	ttgcgcacct	tcgccccagg	ctggggagaa	tgttttaaaa	aaaaaaaagc	13980
atgatgcaaa	ataaaaaact	caccaaggcc	atggcaccga	gcgttggttt	tcttgtattc	14040
cccttagtat	cgcgcgcgcg	gcgatgtatg	aggaaggctc	tcctccctcc	tacgagagtg	14100
tgggtgagcgc	ggcgccagtg	gcggcggcgc	tgggttctcc	cttcgatgct	cccctggacc	14160
cgccgtttgt	gcctccgcgg	tacctgcggc	ctaccggggg	gagaaacagc	atccgttact	14220
ctgagttggc	accctatttc	gacaccaccc	gtgtgtacct	ggtggacaac	aagtcaacgg	14280
atgtggcatc	cctgaactac	cagaacgacc	acagcaactt	tctgaccacg	gtcattcaaa	14340
acaatgacta	cagcccgggg	gaggcaagca	cacagaccat	caatcttgac	gaccggctgc	14400
actggggcgg	cgacctgaaa	accatcctgc	ataccaacat	gccaaatgtg	aacgagttca	14460
tgtttaccaa	taagtttaag	gcgcgggtga	tgtgtgcgcg	cttgccctact	aaggacaatc	14520
aggtggagct	gaaatacgag	tgggtggagt	tcacgctgcc	cgagggcaac	tactccgaga	14580
ccatgaccat	agaccttatg	aacaacgcga	tcgtggagca	ctacttgaaa	gtgggcagac	14640
agaacgggtg	tctggaaagc	gacatcgggg	taaagtttga	cacccgcaac	ttcagactgg	14700
ggtttgaccc	cgctactggt	cttgtcatgc	ctgggttata	tacaaacgaa	gccttccatc	14760
cagacatcat	tttgctgcc	ggatgcgggg	tggacttcac	ccacagccgc	ctgagcaact	14820
tgttgggcat	ccgcaagcgg	caacccttcc	aggagggtt	taggatcacc	tacgatgatc	14880
tggagggtgg	taacattccc	gcactgttgg	atgtggacgc	ctaccaggcg	agcttgaaag	14940
atgacacgga	acaggggcgg	ggtggcgagc	gcggcagcaa	cagcagtggc	agcggcgcg	15000
aagagaactc	caacgcggca	gccgcggcaa	tgcagccggt	ggaggacatg	aacgatcatg	15060
ccattcgcgg	cgacaccttt	gccacacggg	ctgaggagaa	gcgcgctgag	gccgaagcag	15120
gggccgaagc	tggccgcccc	gctgcgcaac	ccgaggctga	gaagcctcag	aagaaaccgg	15180
tgatcaaacc	cctgacagag	gacagcaaga	aacgcagtta	caacctata	agcaatgaca	15240
gcaccttcac	ccagtaccgc	agctggtacc	ttgcatacaa	ctacggcgac	cctcagaccg	15300
gaatccgctc	atggaccctg	ctttgcactc	ctgacgtaac	ctgcggctcg	gagcaggtct	15360
actggtcggt	gccagacatg	atgcaagacc	ccgtgacctt	ccgctccacg	cgccagatca	15420
gcaactttcc	ggtgggtggg	gccgagctgt	tgcccgctga	ctccaagagc	ttctacaacg	15480
accaggccgt	ctactcccaa	ctcatccgcc	agtttacctc	tctgaccac	gtgttcaatc	15540
gctttcccg	gaaccagatt	ttggcgcgcc	cgccagcccc	caccatcacc	accgtcagtg	15600
aaaacgttcc	tgtcttcaca	gatcacggga	cgctaccgct	gcgcaacagc	atcgaggag	15660
tccagcgagt	gaccattact	gacgccagac	gccgcacctg	cccctacgtt	tacaaggccc	15720
tgggcatagt	ctcgcgcgcg	gtcctatcga	gccgcacttt	ttgagcaagc	atgtccatcc	15780
ttatctcgcc	cagcaataaac	acaggctggg	gcttgcgctt	cccaagcaag	atgtttggcg	15840
gggccaaagaa	gcgctccgac	caacacccag	tgcgcgtgcg	cgggcactac	cgcgcgccct	15900
ggggcgcgca	caaacgcggc	cgcactgggc	gcaccaccgt	cgatgacgcc	atcgacgcgg	15960
tgttggagga	ggcgcgcaac	tacacgcccc	cgccgccacc	agtgtccaca	gtggacgcgg	16020

ccattcagac cgtgggtgcgc ggagcccggc gctatgctaa aatgaagaga cggcggaggc 16080  
 gcgttagcacg tcgccaccgc cggcgaccgc gcaactgccgc ccaacgcgcg gcggcgggccc 16140  
 tgctttaaccg cgcacgtcgc accggccgac gggcgggccat gcggggccgct cgaaggctgg 16200  
 ccgcgggtat tgcactgtg cccccaggt ccaggcgacg agcggccgcg gcagcagccg 16260  
 cggccattag tgctatgact cagggtcgca ggggcaacgt gtattgggtg cgcgactcgg 16320  
 ttagcggcct gcgcgtgcc gtgcgcaccc gcccccgcg caactagatt gcaagaaaaa 16380  
 actacttaga ctctactgtg tgtatgtatc cagcggcggc ggcgcgcaac gaagctatgt 16440  
 ccaagcgcaa aatcaaagaa gagatgctcc aggtcatcgc gccggagatc tatggccccc 16500  
 cgaagaagga agagcaggat tacaagcccc gaaagctaaa gcgggtcaaa aagaaaaaga 16560  
 aagatgatga tgatgaactt gacgacgagg tggaaactgt gcacgctacc gcgcccaggc 16620  
 gacgggtaca gtggaaaggc cgacgcgtaa aacgtgtttt gcgaccggc accaccgtag 16680  
 tctttacgcc cggtagcggc tccaccgcga cctacaagcg cgtgtatgat gaggtgtacg 16740  
 gcgacgagga cctgcttgag caggccaacg agcgcctcgg ggagtttgcc tacggaaagc 16800  
 ggcataagga catgctggcg ttgccgctgg acgagggcaa ccaacacct agcctaaagc 16860  
 ccgtaacact gcagcagggt ctgcccgcgc ttgcaccgtc cgaagaaaag cgcggcctaa 16920  
 agcgcgagtc tggtagcttg gcaccaccg tgcagctgat ggtacccaag cgccagcgac 16980  
 tggaaagtgt cttggaaaaa atgaccgtgg aacctgggct ggagcccag gtccgcgtgc 17040  
 ggccaatcaa gcaggtggcg ccgggactgg gcgtgcagac cgtggacgtt cagataccca 17100  
 ctaccagtag caccagtatt gccaccgcca cagagggcat ggagacacaa acgtccccg 17160  
 ttgectcagc ggtggcggtt gcccgcgtgc aggcgtgcgc tgcggccgcg tccaagacct 17220  
 ctacggagggt gcaaacggac ccgtggatgt ttgcggttc agcccccg cgccgcgcg 17280  
 gttcgaggaa gtacggcgcc gccagcgcg tactgccga atatgcccta catccttcca 17340  
 ttgcgcctac ccccgctat cgtggctaca cctaccgccc cagaagacga gcaactacc 17400  
 gacgcggaac caccactgga acccgccgc cgcgtcgccg tgcgcagccc gtgctggccc 17460  
 cgatttccgt gcgcagggtg gctcgcaag gaggcaggac cctggtgctg ccaacagcg 17520  
 gctaccaccc cagcatcgtt taaaagccgg tctttgtggt tcttgagat atggccctca 17580  
 cctgccgctt ccgtttcccg gtgcgggat tccgaggaag aatgcaccgt aggaggggca 17640  
 tggccggcca cggcctgacg ggccgcatgc gtcgtgcga ccaccggcg cgccgcgcg 17700  
 cgcaccgtcg catgcgcggc ggtatcctgc cctccttat tccactgatc gccgcggcga 17760  
 ttggcgccgt gcccggaatt gcatccgtgg ccttgacggc gcagagacac tgattaaaaa 17820  
 caagtgcac gtggaaaaa caaaaaaaa agtctggact ctcacgctcg cttggtcctg 17880  
 taactatttt gtagaatgga agacatcaac tttgctctc tggccccgc acacggctcg 17940  
 cgccccgttca tgggaaactg gcaagatata ggcaccagca atatgagcgg tggcgccctc 18000  
 agctggggct cgctgtggag cggcattaaa aatttcggtt ccaccgttaa gaactatggc 18060  
 agcaaggcct ggaacagcag cacaggccag atgctgaggg ataagttgaa agagcaaaat 18120  
 ttccaacaaa aggtgtaga tggcctggcc tctggcatta gcgggggtgt ggacctggcc 18180  
 aaccaggcag tgcaaaaata gattaacagt aagcttgatc cccgcctcc cgtagaggag 18240  
 cctccaccgg ccgtggagac agtgtctoca gagggcggtg gcgaaaagcg tccgcgcccc 18300  
 gacagggaag aaactctggt gacgcaata gacgagcctc cctcgtacga ggaggcacta 18360  
 aagcaaggcc tgcccaccac ccgtcccatc gcgcccattg ctaccggagt gctggggcag 18420  
 cacacaccgg taacgctgga cctgcctccc cccgcgcgca cccagcagaa acctgtgctg 18480  
 ccaggcccga ccgcgctgtg tgaaccctg cctagccgc ggcaaagcac actgaacagc 18540  
 ageggctcgc gatcgttgcg gcccgtagcc agtggcaact ggcaaagcac actgaacagc 18600  
 atcgtgggtc tgggggtgca atccctgaag cgccgacgat gcttctgaat agctaactg 18660  
 tgcgtatgtg gtcattgtat cgtccatgtc gccgcagag gagctgctga gccgcgcgc 18720  
 gccgcctttc caagatggct accccttcga tgatgccga gtggtcttac atgcacatc 18780  
 cgggcccagga cgccctcgag tacctgagcc ccgggctggt gcaagttggc cgcgccaccg 18840  
 agacgtactt cagcctgaat aacaagtta gaaacccac ggtggcgctt acgcacgacg 18900  
 tgaccacaga ccggtcccag cgtttgacgc tgcggttcac ccctgtggac cgtgaggata 18960  
 ctgcgtactc gtacaaggcg cggttcaccc tagctgtggg tgataaccgt gtgctggaca 19020  
 tggcttccac gtactttgac atccgcggcg tctgggacag gggccctact tttagccct 19080  
 actctggcac tgcttacaac gccctggctc ccaagggtgc cccaaatcct tgcgaatggg 19140  
 atgaagctgc tactgtctt gaaataaacc tagaagaaga ggacgatgac aacgaagacg 19200  
 aagtagacga gcaagctgag cagcaaaaaa ctcacgtatt tgggcaggcg ccttattctg 19260  
 gtataaatat tacaaggag ggtattcaaa taggtgtcga aggtcaaaa cctaaaatag 19320  
 ccgataaaac atttcaacct gaacctcaaa taggagaatc tcagtgttac gaaactgaaa 19380  
 ttaatcatgc agctgggaga gtccttaaaa agactacccc aatgaaacca tgttacggtt 19440  
 catatgcaaa acccacaat gaaaatggag ggcaaggcat tcttgtaaaag caacaaaatg 19500  
 gaaagctaga aagtcaagt gaaatgcaat ttttctcaac tactgaggcg accgcaggca 19560  
 atggtgataa cttgactcct aaagtggat tgtacagtga agatgtagat atagaaaccc 19620  
 cagacactca tatttcttac atgcccacta ttaaggagg taactcacga gaactaatgg 19680  
 gccacaatc tatgcccaac aggcctaatt acattgcttt tagggacaat tttattggtc 19740  
 taatgtatta caacagcacg ggtaatatgg gtgttctggc gggccaagca tcgcagttga 19800  
 atgctgtgtg agatttgcaa gacagaaaca cagagctttc ataccagctt ttgcttgatt 19860  
 ccattgggtg tagaaccagg tacttttcta tgtggaatca ggctgttgac agctatgatc 19920  
 cagatgttag aattattgaa aatcatggaa ctgaagatga acttccaaat tactgctttc 19980

cactgggagg tgtgattaat acagagactc ttaccaaggt aaaacctaaa acagggtcagg 20040  
 aaaatggatg ggaaaaagat gctacagaat ttccagataa aaatgaaata agagttggaa 20100  
 ataattttgc catggaaatc aatctaaatg ccaacctgtg gagaaatttc ctgtactcca 20160  
 acatagcgct gtattttgccc gacaagctaa agtacagtcc ttccaacgta aaaattttctg 20220  
 ataaccctaaa cacctacgac tacatgaaca agcagtggtt ggctcccggg ttagtgaggact 20280  
 gctacattaa ccttgaggca cgctgggtccc ttgactatat ggacaacgtc aaccatttta 20340  
 accaccaccg caatgctggc ctgctgtacc gctcaatgtt gctgggcaat ggtcgtctatg 20400  
 tgcccttcca catccagggt cctcagaagt tctttgccat taaaaacctc cttctcctgc 20460  
 cgggctcata cacctacgag tggaacttca ggaaggatgt taacatgggt ctgcagagct 20520  
 ccctaggaaa tgacctaaagg gttgacggag ccagcattaa gtttgatagc atttgccctt 20580  
 acgccacctt cttcccctat gccacaaca ccgcctccac gcttgaggcc atgcttagaa 20640  
 acgacaccaa cgaccagtcc tttaacgact atctctccgc cgccaacatg ctctacccta 20700  
 taccgcgcaa cgctaccaac gtgcccata ccctcccctc ccgcaactgg gcggctttcc 20760  
 gcggctgggc cttcacgcgc ctttaagacta aggaacccc atcactgggc tcgggctacg 20820  
 acccttatta cactactct ggctctatc cctacctaaga tggaacctt tacctcaacc 20880  
 acacctttaa gaagggtggc attacctttg actcttctgt cagctggcct ggcaatgacc 20940  
 gcctgcttac ccccaacgag tttgaaatta agcgtcagc tgacggggag ggttacaacg 21000  
 ttgcccagtg taacatgacc aaagactggg tcttggtaca aatgctagc aactacaaca 21060  
 ttggctacca gggcttctat atcccagaga cgctcatgtac tccttcttta 21120  
 gaaacttcca gcccatgagc cgctcaggtg ttgatgatac taaatacaag gactaccaac 21180  
 aggtgggcat cctacaccaa cacaacaact ctggatttgt ttggtacctt gccccacca 21240  
 tgccggaagg acaggcctac cctgctaact tcccctatcc gcttataggc aagaccgag 21300  
 ttgacagcat taccagaaa aagtttcttt gcgacgcac cctttggcgc atcccttct 21360  
 ccagtaactt tatgtccatg ggccgactca cagacctggg ccaaaacctt ctctacgcca 21420  
 actccgcccc cgcgtagac atgacttttg aggtggatcc catggacgag cccaccttc 21480  
 tttatgtttt gtttgaagtc tttgacgtgg tccgtgtgca ccggccgcac cgccgctca 21540  
 tcgaaaccgt gtacctgcgc acgccccttct cggccggcaa cgccacaaca taaagaagca 21600  
 agcaacatca acaacagctg ccgccatggg ctccagttag caggaaactga aagccattgt 21660  
 caaagatctt ggttgggggc catatttttt agtcaatacg gccggtcgcg agactggggg 21720  
 tgtttctcca cacaagctcg cctgcgccat gcaactcaaaa acatgctacc tctttgagcc 21780  
 cgtagactgg atggcctttg cctggaaccc gactcaagca ggtttaccag tttgagtacg agtcactcct 21840  
 ctttggtctt tctgaccagc gactcaagca ggtttaccag tttgagtacg agtcactcct 21900  
 gcgccgtagc gccattgctt cttccccga ccgctgtata acgctggaaa agtccacca 21960  
 aagcgtacag gggcccaact cgcccgctg ttgactatcc tgcgtcatgt ttctccacgc 22020  
 ctttgccaac tggcccaaaa ctcccattgga tcacaacccc accatgaacc ttattaccg 22080  
 ggtacccaac tccatgctca acagtcccca ggtacagccc accctgcgtc gcaaccagga 22140  
 acagctctac agcttctctg agcgccaact gccctacttc cgcagccaca gtgcgcagat 22200  
 taggagcgcc acttcttttt gtcacttgaa aaacatgtaa aaataatgta ctagagacac 22260  
 tttcaataaa ggcaaatgct tttatttgta cactctcggg tgattattta cccccacct 22320  
 tgccgtctgc gccgttttaa aatcaaaggg gttctgcgc gcactcgtat gcgccactgg 22380  
 cagggacacg ttgcgatact ggtgtttagt gctccactta aactcaggca caaccatccg 22440  
 cggcagctcg gtgaagtttt cactccacag gctgcgcacc atcaccaacg cgtttagcag 22500  
 gtcggggcgc gatattctga agtcgcagtt ggggcctccg ccctgcgcgc gcgagttgcg 22560  
 atacacaggg ttgcagcact ggaacactat cagcgccggg ttggtgcacg tgccagcagc 22620  
 gctcttgctg gagatcagat ccgctccag gtccctccgc ttgctcaggg cgaacggagt 22680  
 caactttggt agctgccttc ccaaaaaggg cgcgtgcccc ggctttgagt tgcactcgca 22740  
 ccgtagtggc atcaaaaagg gaccgtgccc ggtctgggag ttaggataca gcgcctgcat 22800  
 aaaagccttg atctgcttaa aagccacctg agcctttgag ccttcagaga agaacatgcc 22860  
 gcaagacttg ccggaaaact gattggccgg acaggccgcg tcgtgcacgc agcaccttgc 22920  
 gtcgggtgtg gagatctgca ccacatttgc gccccaccgg ttcttcacga tcttggcctt 22980  
 gctagactgc tcttcagcg cgcgtgccc gttttcgctc gtcacatcca tttcaatcac 23040  
 gtgctcctta tttatcataa tgcttccgtg tagacactta agctcgcctt cgatctcagc 23100  
 gcagcgggtg agccacaacg cgcagcccgt gggctcgtga tgcttgtagg tcacctctgc 23160  
 aaacgactgc aggtacgcct gcaggatcg ccccatcatc gtcacaaagg tcttggtgct 23220  
 ggtgaaggtc agctgcaacc cgcggtgctc ctgcttcagc caggtcttgc atacggccgc 23280  
 cagagcttcc acttggtcag gcagtagttt gaagttcgcc tttagatcgt tatccagtg 23340  
 gtacttgtcc atcagcgcg gcgcagcctc catgcccttc tcccacgag acacgatcgg 23400  
 cacactcagc ggggtcatca ccgtaatttc actttccgct tcgctgggct cttcctcttc 23460  
 ctcttgctgc cgcataccac gcgccactgg gtcgtcttca ttcagccgcc gcaactgtgcg 23520  
 cttacctcct ttgccatgct tgattagcac cggtgggttg ctgaaaccca ccattttag 23580  
 cgccacatct tctctttctt cctcgtctgc cactgattacc cttgggca atggccaaat ccgcccgcga 23640  
 gggcttggga gaaggcgct gtgtgcgcgg caccagcgcg tcttgatg agtcttctc 23700  
 ggtcgatggc cgcggtgctg gtgtgcgcgg caccagcgcg tcttgatg agtcttctc 23760  
 gtccctggac tcgatacgcc gcctcatccg cttttttggg ggcgcccggg gagggcgcg 23820  
 cgacggggac ggggacgaca cgtcctccat ggttggggga cgtcgcgcgg caccgcgtc 23880  
 gcgctcgggg gtggtttcgc gctgctcctc ttcccagact gccatttct tctcctatag 23940



```

gcagaaaaag atcatggagt cagtcgagaa gaaggacagc ctaaccgccc cctctgagtt 24000
cgccaccacc gcctccaccg atgccgccaa cgcgcctacc accttccccg tccaggcacc 24060
cccgcctttag gaggaggaag tgattatcga gcaggacca ggttttgtaa gcgaagacga 24120
cgaggaccgc tcagtaccaa cagaggataa aaagcaagac caggacaacg cagaggcaaa 24180
cgaggaaaca gtcgggcggg gggacgaaag gcatggcgac tacctagatg tgggagacga 24240
cgtgctgttg aagcatctgc agcgccagtg cgccattatc tgcgacgcgt tgcaagagcg 24300
cagcgatgtg cccctcgcca tagcggatgt cagccttgcc tacgaacgcc acctattctc 24360
accgcgcgta ccccccaaac gccaaagaaa cggcacatgc gagcccaacc cgcgcctcaa 24420
ctttaccccc gtatttgccg tgccagaggt gcttgccacc tatcacatct ttttccaaa 24480
ctgcaagata cccctatcct gccgtgccaa ccgcagccga gcggacaagc agctggcctt 24540
gcggcagggc gctgtcatal ctgatatcgc ctgcctcaac gaagtgccaa aaatctttga 24600
gggtcttga cgcgacgaga agcgcgcgag aaacgctctg caacaggaag acagcgaaaa 24660
tgaaagtcac tctggagtgt tgggtggaact cgagggtagc aacgcgcgcc tagcctgact 24720
aaaaacgcag atcgaggtca cccactttgc ctaccggca cttaacctac ccccaagggt 24780
catgagcaca gtcagtgtg agctgatcgt gcgcgctgcg cagcccttgg agagggatgc 24840
aaatttgcaa gaacaaacag aggagggcct accgcagtt ggcgacgagc agctagcgcg 24900
ctggcttcaa acgcgcgagc ctgccgactt ggaggagcga cgcaaaactaa tgatggccgc 24960
agtgcctggt accgtggagc ttgagtgcac gcagcggttc tttgctgacc cggagatgca 25020
gcgcaagcta gaggaacac tgcaactacac ctttcgacag ggctacgtac gccaggcctg 25080
caagatctcc aacgtggagc tctgcaacct ggtctcctac cttggaattt tgcacgaaaa 25140
ccgccttggg caaaacgtgc ttctattccac gctcaagggc gaggcgcgcc gcgactacgt 25200
ccgcgactgc gtttacttat ttctatgcta cacctggcag acggccatgg gcgtttggca 25260
gcagtgcctg gaggagtgcac acctcaagga gctgcagaaa ctgctaaagc aaaacttgaa 25320
ggacctatgg acggccttca acgagcgctc cgtggccgcy cacctggcgy acatcathtt 25380
ccccgaacgc ctgcttaaaa ccttgcaaca gggcttgcca gacttcacca gtcaaagcat 25440
gttgacgaac tttaggaact ttatcctaga gcgctcagga atcttgcccg ccacctgctg 25500
tgcaacttct agcgactttg tgcccattaa gtaccgcgaa tgccctccgc cgttttgggg 25560
ccactgctac cttctgcagc tagccaacta ccttgccctac cactctgaca taatggaaga 25620
cgtgagcggg gacggctctac tggagtgtca ctgtcgctgc aacctatgca ccccgacccg 25680
ctccctgggt tgcaattcgc agctgcttaa cgaaagtcaa attatcggtt cctttgagct 25740
gcaggggtccc tgcctgacg aaaagtccgc ggctccgggg ttgaaactca ctccggggct 25800
gtggacgtcg gcttaccttc gcaaatattgt acctgaggac taccacgccc acgagattag 25860
gttctacgaa gaccaatccc gcccgccaaa tgcaggagct accgcctgcy tcattaccga 25920
gggcccacatt cttggccaat tgcaagccat caacaaagcc cgccaagagt ttctgctacg 25980
aaagggacgg ggggtttact tggaccccc gtcgggcgag gagctcaacc caatcccccc 26040
gccgcgcgag ccctatcagc agcagccgcg ggcccttgct tcccaggatg gcacccaaaa 26100
agaagctgca gctgccgccc ccacccacgg acgaggagga atactgggac agtcaggcag 26160
aggaggtttt ggacgaggag gaggaggaca tgatggaaga ctgggagagc ctgagcagg 26220
aagcttccga ggtcgaagag gtgtcagacg aaacacgcgt accctcggtc gcatccccct 26280
cgccggcgcc ccagaaatcg gcaaccggtt ccagcatggc tacaacctcc gctcctcagg 26340
cgccgcggcg actgcccgtt cgccgaccca accgtagatg ggacaccact ggaaccaggg 26400
ccggtaaagt caagcagccc ccgcggttag cccaagagca acaacagcgc caaggctacc 26460
gctcatggcg cgggcacaa gaaagcctag ttgctgtgct gcaagactgt gggggcaaca 26520
tctcttcgct cgcgcgcttt cttctctacc atcacggcgt ggccctcccc cgtaacatcc 26580
tgcaactact ccgtcatctc tacagcccat actgcaccgg cggcagcggc agcggcagca 26640
acagcagcgg ccacacagaa gcaaaggcga ccggatagca agactctgac aaagcccaag 26700
aaatccacag cggcggcagc agcaggagga ggagcgctgc gtctggcgcc caacgaaccc 26760
gtatcgaccc gcgagcttag aaacaggatt ttccccactc tgtatgctat atttcaacag 26820
agcaggggcc aagaacaaga gctgaaaata aaaaacagggt ctctgcgac cctcaccggc 26880
agctgcctgt atcacaaaag cgaagatcag cttcggcgca cgctggaaga cgcggaggct 26940
ctcttcagta aatactgcgc gctgactctt aaggactagt ttgcgcgcc tctctcaaatt 27000
taagcgcgaa aactacgtca tctccagcgg ccacaccggg cgccagcacc tgcctgcagc 27060
gccattatga gcaaggaaat tcccacgccc tacatgtgga gttaccagcc acaaaggga 27120
cttgcggtg gagctgcccc agactactca acccgaataa actacatgag cgcgggaccc 27180
cacatgatat ccggttcaa cggaatccgc gccacccgaa accgaattct cttggaacag 27240
gcggctatta ccaccacacc tcgtaataac cttaatcccc gtatgtggcc cgtgccttg 27300
gtgtaccagg aaagtcccgc tcccaccact gtggctactt ccagagacgc ccaggccgaa 27360
gttcagatga ctaactcagg gtcgcagctt ctcgtcacag ggtgcggtc 27420
cccgggcagg gtataactca cctgacaatc agagggcgag gtattcagct caacgacgag 27480
tcgggtgagct cctcgcttgg tctccgtccg gacgggacat ttcagatcgg cgcgcgggc 27540
cgtccttcat tcacgcctcg tcaggcaatc ctaactctgc agacctcgtc ctctgagccg 27600
cgctctggag gcattggaac ctgcaattt attgaggagt ttgtgccatc ggtctacttt 27660
aacccttctt cgggacctcc cgggactat ttattcctaa ctttgacgcy 27720
gtaaggact cggcgacgg ctacgactga atgttaagt gagaggcaga gcaactgcgc 27780
ctgaaacacc tgggtccactg tcgcgcgccac aagtgtcttg cccgcgactc cggtagttt 27840
tgctactttg aattgcccg ggtatcatat gagggcccg cgcacggcgt ccggcttacc 27900

```

```

gccagggag agcttgcccg tagcctgatt cgggagttta cccagcgccc cctgctagtt 27960
gagcgggaca ggggacctcg tgttctcact gtgatttgca actgtcctaa ccttggatta 28020
catcaagatc tttgttgcca tctctgtgct gagtataata aatacagaaa ttaaaatata 28080
ctggggctcc tatcgccatc ctgtaaacgc caccgtcttc acccgcccaa gcaaaccaag 28140
gcgaacctta cctggacttt ttaacatctc tcctctgtg atttacaaca gtttcaacct 28200
agacggagtg agtctacgag agaacctctc cgagctcagc tactccatca gaaaaaacac 28260
caccctcctt acctgccggg aacgtacgag tgcgtcaccg gccgctgcac cacacctacc 28320
gcctgaccgt aaaccagact ttttcgggac agacctcaat aactctgttt accagaacag 28380
gaggtgagct tagaaaaccc ttagggattt agggcaaagg cgcagctact gtggggttta 28440
tgaacaattc aagcaactct acgggctatt ctaattcagg tttctctaga agtcaggctt 28500
cctggatgtc agcatctgac tttggccagc acctgtcccg cggatttggt ccagtccaac 28560
tacagcgacc caccctaaca gagatgacca acacaaccaa cgcggccgccc gctaccggac 28620
ttacatctac cacaatatca ccccaagttt ctgcctttgt caataactgg gataacttgg 28680
gcatgtggtg gttctccata gcgcttatgt ttgtatgctt tattattatg tggctcatct 28740
gctgcctaaa gcgcaaacgc gcccgaccac ccatctatag tcccatcatt gtgctacacc 28800
caaacaatga tggaatccat agattggacg gactgaaaca catgttcttt tctcttacag 28860
tatgattaaa tgagatctag aaatggacgg aattattaca gagcagcgcc tgctagaaaag 28920
acgcagggca gcggccgagc aacagcgcat gaatcaagag ctccaagaca tggttaactt 28980
gcaccagtgc aaaaggggta tcttttgtct ggtaaaagcag gccaaagtca cctacgacag 29040
taataccacc ggacaccgcc ttagctacaa gttgccaacc aagcgtcaga aattggtggt 29100
catggtggga gaaaagccca ttaccataac tcagcactcg gtagaaaccg aaggctgcat 29160
tcaactcact tgtcaaggac ctgaggatct ctgcaccctt attagacccc tgtgcggctt 29220
caaagatctt attcccttta actaataaaa aaaaataata aagcatcact tacttaaat 29280
cagttagcaa atttctgtcc agtttattca gcagcacctc cttgccctcc tcccagctct 29340
ggtattgcag cttctcctcg gctgcaaact ttctccacaa tctaaatgga atgtcagttt 29400
cctcctgttc ctgtccatcc gcacccacta tcttcatggt gttgcagatg aagcgcgcaa 29460
gaccgtctga agataccttc aaccccggtg atccatatga cagggaaacc ggtcctccaa 29520
ctgtgccttt tcttactcct ccttttgtat cccccaatgg gtttcaagag agtccccctg 29580
gggtactctc tttgcgctta tccgaacctc caatggcatg cttgcgctca 29640
aaatgggcaa cggcctctct ctggacgagg ccggcaacct tacctcccaa aatgtaacca 29700
ctgtgagccc acctctcaaa aaaaccaagt caaacataaa cctggaaata tctgcacccc 29760
tcacagttac ctacagaagc ctaactgtgg ctgcgcgcgc acctctaata gtcgcgggca 29820
acacactcac catgcaatca caggccccgc taaccgtgca cgactccaaa ctagcattg 29880
ccacccaagg acccctcaca gtgtcagaag gaaagctagc cctgcaaaca tcaggcccc 29940
tcaccaccac cgatagcagt acccttacta tcaactgctc acccctcta actactgcca 30000
ctggtagctt gggcattgac ttgaaagagc ccatattatac acaaaatgga aaactaggac 30060
taaagtacgg ggctcctttg catgtaacag acgacctaaa cactttgacc gtagcaactg 30120
gtccagggtg gactattaat aatacttctt tgcaaaacta agttactgga gccttgggtt 30180
ttgattcaca aggcaatatg caacttaatg tagcaggagg actaaggatt gattctcaaa 30240
acagacgcct tatacttgat gttagttatc cgtttgatgc tcaaaaccaa ctaaacttaa 30300
gactaggaca gggccctctt tttataaact cagcccacaa cttggatatt aactacaaca 30360
aaggccttta cttgtttaca gtttcaaaaa attccaaaaa gcttgagggt aacctaagca 30420
ctgccaaagg gttgatgttt ccaaacacaa atcccctcaa aacaaaaatt ggccatggcc 30480
aatttggttc acctaatgca gctatggttc ctaaaactagg aactggcctt agttttgaca 30540
tagaatttga ttcaaaacag gctatggttc gctaaactagg gctaaacttg tggaccacac 30600
gcacaggtgc cattacagta ggaacaaaaa ataatagata tgctaaactc actttggctt 30660
cagctccatc tcctaactgt agactaaatg cagagaaaga cagtttcagt tttggctggt aaaggcagtt 30720
taacaaaatg tggcagtcaa atacttgcta cagtttcagt tttggctggt taaagattt gacgaaaatg 30780
tggctccaat atctggaaca gttcaaagtg ctcatcttat tataagattt aatggagatc 30840
gagtgtact aaacaattcc ttcctggacc cagaatattg gaactttaga aatggagatc 30900
ttactgaagg cacagcctat acaaacgctg ttggatttat gcctaacctc tcagcttatc 30960
caaaatctca cggtaaaact gccaaaagta acattgtcag tcaagtttac ttaaacggag 31020
acaaaactaa acctgtaaca ctaaccatta cactaaacgg tacacaggaa acaggagaca 31080
caactccaag tgcatactct atgtcatttt catgggactg gtctggccac aactacatta 31140
atgaaatatt tgccacatcc tcttacactt tttcatacat tgcccaagaa taaagaatcg 31200
tttgtgttat gtttcaacgt gtttattttt caattgcaga aaatttcaag tcatttttca 31260
ttcagtagta tagccccacc accacatagc ttatacagat caccgtacct taatcaaaact 31320
cacagaaccc tagtattcaa cctgccacct cctcccaac acacagagta cacagtcctt 31380
tctccccggc tggccttaaa aagcatcata tcatgggtaa cagacatatt cttaggtggt 31440
atattccaca cggtttctcg tcgagccaaa cgtcatcag tgatattaat aaactccccg 31500
ggcagctcac ttaagttcat gtcgctgtcc agctgctgag ccacaggctg ctgtccaact 31560
tgcggttgct taacggggcg cgaaggagaa gtccacgcct acatgggggt agagtcataa 31620
tcgtgcatca ggatagggcg gtggtgctgc agcagcgcg gaataaactg ctgccgccgc 31680
cgctccgtcc tgcaggaata caacatggca gtggtctcct cagcgatgat tgcaccgcc 31740
cgacagataa ggcgccttgt cctccgggca cagcagcgca ccctgatctc acttaaatca 31800
gcacagtaac tgcagcacag caccacaata ttgttcaaaa tcccacagtg caaggcgctg 31860

```

tatccaaagc	tcattggcggg	gaccacagaa	cccacgtggc	catcatacca	caagcgcagg	31920
tagattaagt	ggcgaccctt	cataaacacg	ctggacataa	acattacctc	ttttggcatg	31980
ttgtaattca	ccacctcccg	gtaccatata	aacctctgat	taaacatggc	gccatccacc	32040
accatcctaa	accagctggc	caaaacctgc	cgccgggcta	tacactgcag	ggaaccggga	32100
ctggaacaat	gacagtggag	agcccaggac	tcgtaaccat	ggatcatcat	gctcgtcatg	32160
atatcaatgt	tggcacaaca	caggcacacg	tgcatacact	tcctcaggat	tacaagctcc	32220
tcccgcgtta	gaaccatata	ccagggaaca	accatttcct	gaatcagcgt	aaatcccaca	32280
ctgcagggaa	gacctcgcac	gtaactcacg	ttgtgcattg	tcaaagtgtt	acattcgggc	32340
agcagcggt	gacccctccg	tatggtagcg	cggttttctg	tctcaaaagg	aggtagacga	32400
tccctactgt	acggagtgcg	ccgagacaac	cgagatcggt	ttggtcgtag	tgctatgcca	32460
aatggaacgc	cggacgtagt	catatttctt	gaagcaaaac	cagggtgcggg	cgtgacaaac	32520
agatctgcgt	ctccggtctc	gccgcttaga	tcgctctgtg	tagtagttgt	agtatatcca	32580
ctctctcaaa	gcattccaggc	gccccctggc	ttcgggttct	atgtaaaact	cttcatgcgc	32640
cgctgccttg	ataacatcca	ccaccgcaga	ataagccaca	ccagcccaac	ctacacattc	32700
gttctgcgag	tcacacacgg	gaggagcggg	aagagctgga	agaaccatgt	tttttttttt	32760
attccaaaag	attatccaaa	acctcaaaat	gaagatctat	taagtgaacg	cgctcccctc	32820
cgggtggcgtg	gtcaaaactct	acagccaaag	aacagataat	ggcattttgt	agatgttgca	32880
caatggcttc	caaaaggcaa	acggccctca	cgtccaagtg	gacgtaaaag	ctaaaccctt	32940
cagggtgaat	ctcctctata	aacattccag	caccttcaac	catgcccaaa	taattctcat	33000
ctcgccacct	tctcaatata	tctctaagca	aatcccgaat	attaagtccg	gccattgtaa	33060
aaatctgctc	cagagcgccc	tccaccttca	gcctcaagca	gcgaatcatg	attgcaaaaa	33120
ttcaggttcc	tcacagacct	gtataagatt	caaaagcgga	acattaacaa	aaataccgcg	33180
atcccgtagg	tcccttcgca	gggccagctg	aacataatcg	tgcaggctctg	cacggaccag	33240
cgcggccact	tcccgcgag	gaaccttgac	aaaagaaccc	acactgatta	tgacacgcat	33300
actcgagct	atgctaacca	gcgtagcccc	gatgtaagct	ttgttgcatg	ggcggcgata	33360
taaaatgcaa	ggtgctgctc	aaaaaatcag	gcaagcctc	gcgcaaaaaa	gaaagcacat	33420
cgtagtcatg	ctcatgcaga	taaaggcagg	taagctccgg	aaccaccaca	gaaaaagaca	33480
ccatttttct	ctcaaacatg	tctgcggtt	tctgcataaa	cacaaaataa	aataacaaaa	33540
aaacatttaa	acattagaag	cctgtcttac	aacaggaaaa	acaaccctta	taagcataag	33600
acggactacg	gccatgccgg	cgtgaccgta	aaaaaactgg	tcaccgtgat	taaaaagcac	33660
caccgacagc	tctcgggtca	tgtccggagt	cataatgtaa	gactcggtaa	acacatcagg	33720
ttgattcatc	ggtcagtgct	aaaaagcgac	cgaaatagcc	cggggggaata	catacccgca	33780
ggcgtagaga	caacattaca	gcccccatag	gaggataaac	aaaattaata	ggagagaaaa	33840
acacataaac	acctgaaaaa	cctcctgccc	tagggcaaat	agcaccctcc	cgtccagaaa	33900
caacatacag	cgcttcacag	cggcagccta	acagtcagcc	ttaccagtaa	aaaagaaac	33960
ctattaaaaa	aacaccactc	gacacggcac	cagctcaatc	agtcacagtg	taaaaagggg	34020
ccaagtgcag	agcgagtata	tataggacta	aaaaatgacg	taacggttaa	agtccacaaa	34080
aaacaccag	aaaaccgcac	gcgaacctac	gccagaaaac	gaaagccaaa	aaaccacaaa	34140
cttctcctcaa	tcgtcaactc	cgttttccca	cgttacgtaa	cttcccattt	taagaaaaact	34200
acaattccca	acacatacaa	gttactccgc	cctaaaacct	acgtcacccg	ccccgttccc	34260
acgccccgcg	ccacgtcaca	aactccaccc	cctcattatc	atattggctt	caatccaaaa	34320
taaggtatat	tattgatgat	g				34341

&lt;210&gt; 3

&lt;211&gt; 33699

&lt;212&gt; DNA

&lt;213&gt; Adenovirus subgroup C

&lt;400&gt; 3

catcatcaat	aatatacctt	attttggatt	gaagccaata	tgataatgag	ggggtggagt	60
ttgtgacgtg	gcgcggggcg	tgggaacggg	gcgggtgacg	tagtagtggt	gcggaagtgt	120
gatgttgcaa	gtgtggcgga	acacatgtaa	gcgacggatg	tggcaaaagt	gacgtttttg	180
gtgtgcgcgc	gtgtacacag	gaagtgcaca	ttttcgcgcg	gttttaggcg	gatgttgtag	240
taaatttggg	cgtaaccgag	taagatttgg	ccattttcgc	gggaaaactg	aataagagga	300
agtgaatct	gaataatttt	gtgttactca	tagcgcgtaa	tatttgtcta	gggcgcgggg	360
gactttgacc	gtttacgtgg	agactcgcgc	aggtgttttt	ctcagggtgt	ttccgcgttc	420
cgggtcaaag	ttggcgtttt	attattatag	tcagctgacg	tgtagtgtat	ttatacccg	480
tgagttcctc	aagaggccac	tcttgagtgc	cagcgagtag	agttttctcc	tccgagccgc	540
tccgacaccg	ggactgaaaa	tgagacatat	tatctgccac	ggaggtgtta	ttaccgaaga	600
aatggccgcc	agtcttttgg	accagctgat	cgaagaggta	ctggctgata	atcttccacc	660
tcttagccat	tttgaaccac	ctacccttca	cgaactgtat	gatttagacg	tgacggcccc	720
cgaagatccc	aacgaggagg	cggtttcgca	gatttttccc	gactctgtaa	tgttggcggt	780
gcaggaaggg	attgacttac	tcacttttcc	gcggcgcccc	ggttctccgg	agccgcctca	840
cctttcccg	cagcccagac	agccggagca	gagagccttg	ggtccggttt	ctatgcaaaa	900
ccttgtagcg	gaggtgatcg	atcttacctg	ccacgaggct	ggctttccac	ccagtgcaga	960
cgaggatgaa	gagggtgagg	agtttgtgtt	agattatgtg	gagcaccgcc	ggcaggtgtg	1020

caggtcttgt cattatcacc ggaggaatac gggggaccca gatattatgt gttcgttttg 1080  
 ctatatgagg acctgtggca tgtttgtcta cagtaagtga aaattatggg cagtgggtga 1140  
 tagagtgggtg ggtttgggtg ggtaattttt tttttaattt ttacagtttt gtggtttaaa 1200  
 gaatttttga ttgtgatttt tttaaaaggt cctgtgtctg aacctgagcc tgagcccgag 1260  
 ccagaaccgg agcctgcaag acctaccgc cgtcctaaaa tggcgccctgc tatcctgaga 1320  
 cgcccgacat cacctgtgtc tagagaatgc aatagtagta cggatagctg tgactccggt 1380  
 ccttctaaca cacctcctga gatacaccgc gtggtcccgc tgtgccccat taaaccagtt 1440  
 gccgtgagag ttggtgggag tgcgccaggt gtggaatgta tcgaggactt gcttaacgag 1500  
 cctgggcaac ctttgactt gagctgtaaa cgcccaggc cataagggtg aaacctgtga 1560  
 ttgcgtgtgt ggttaacgcc tttgtttgct gaatgagttg atgtaagttt aataaagggt 1620  
 gagataatgt ttaacttgca tggcgtgtta aatggggcgg ggcttaaagg gtatataatg 1680  
 cgccgtgggc taatcttggt tacatctgac ctcatggagg cttgggagtg tttggaagat 1740  
 ttttctgctg tgcgtaactt gctggaacag agctctaaca gtacctcttg gttttggagg 1800  
 ttttctgtgg gctcatccca ggcaaaagta gtctgcagaa ttaaggagga ttacaagtgg 1860  
 gaatttgaag agcttttgaa atcctgtggt gagctgtttg attccttgaa tctgggtcac 1920  
 caggcgcttt tccaagagaa ggtcatcaag actttggatt tttccacacc ggggcgcgct 1980  
 gcggtgctg ttgctttttt gagttttata aaggataaat ggagcgaaga aacctatctg 2040  
 agcggggggt acctgctgga ttttctggcc atgcatctgt ggagagcggg tgtgagacac 2100  
 aagaatcgcc tgctactggt gtcttcgctc cgcccggcga taataccgac ggaggagcag 2160  
 cagcagcagc aggaggaagc caggcgggcg cggcaggagc agagcccatg gaacccgaga 2220  
 gccggcctgg accctcgga atgaatgttg tacagggtgc tgaactgtat ccagaactga 2280  
 gacgcatttt gacaattaca gaggatgggc aggggctaaa gggggtaaag agggagcggg 2340  
 gggcttgtga ggctacagag gaggctagga atctagcttt tagcttaatg accagacacc 2400  
 gtctgtagtg tattactttt caacagatca aggataattg cgctaagtga cttgatctgc 2460  
 tggcgcaaaa gtattccata gagcagctga ccacttactg gctgcagcca ggggatgatt 2520  
 ttgaggaggc tattagggtat tatgcaaaagg tggcacttag gccagattgc aagtacaaga 2580  
 tcagcaaaact tgtaaatatc aggaattgtt gctacatttc tgggaacggg gccgaggtgg 2640  
 agatagatac ggaggatagg gtggccttta gatgtagcat gataaatatg tggccggggg 2700  
 tgcttggcat ggaacggggg gttattatga atgtaagggt tactggcccc aatttttagcg 2760  
 gtacggtttt cctggccaat accaacctta tctacacgg tgtaagcttc tatgggttta 2820  
 acaatacctg tgtggaagcc tggaccgatg taagggttcg gggctgtgcc ttttactgct 2880  
 gctggaaggg ggtggtgtgt cgccccaaaa gcagggttc aattaagaaa tgctctttg 2940  
 aaagggtgac cttgggtatc ctgtctgagg gtaactccag ggtgcgccac aatgtggcct 3000  
 cogactgtgt ttgcttcatg ctagtgaaaa gcgtggctgt gattaagcat aacatggtat 3060  
 gtggcaactg cgaggacagg gcctctcaga tgctgacctg ctggacggc aactgtcacc 3120  
 tgctgaagac cattcacgta gccagccact ctgcgaaggc ctggccagtg tttgagcata 3180  
 acatactgac ccgctgttcc ttgcatattg gtaacaggag gggggtgttc ctaccttacc 3240  
 aatgcaattt gagtcacact aagatattgc ttgagcccga gagcatgtcc aaggtgaacc 3300  
 tgaacggggt gtttgacatg accatgaaga tctggaagggt gctgaggtac gatgagacc 3360  
 gcaccagggt cagaccctgc gactgtggcg gtaaacatat taggaaccag cctgtgatgc 3420  
 tggatgtgac cgaggagctg aggcccgatc acttgggtgct ggcctgcacc cgcgctgagt 3480  
 ttggctctag cgatgaagat acagattgag gtactgaaat gtgtgggctg ggttaaggg 3540  
 tgggaaagaa tatataagggt gggggtctta ttactgtttt tatctgtttt gcagcagccg 3600  
 ccgcccgcct gagcaccaac tegtttgatg gaagcattgt gagctcatat ttgacaacgc 3660  
 gcatgcccc atgggcccgg gtgcgtcaga atgtgatggg ctccagcatt gatggtcgcc 3720  
 ccgtcctgcc cgcaaactct actaccttga cctacgagac cgtgtctgga acgcccgttg 3780  
 agactgcagc ctccgccgcc gcttcagccg ctgcagccac cgcccgccgg attgtgactg 3840  
 accttgcttt cctgagcccc cttgcaagca gtgcagcttc ccgttcatcc gcccgcgatg 3900  
 acaagttgac ggctcttttg gcacaattgg attctttgac ccgggaactt aatgtcgttt 3960  
 ctgagcagct gttggtctg cgccagcagg tttctgccc gaaggcttcc tcccctccca 4020  
 atgctgttta aaacataaat aaaaaaccag actctgtttg gatttggatc aagcaagtgt 4080  
 cttgtgtctt ttatttaggg gttttgcgg cgcgtaggc cgggaccag cgttctcggt 4140  
 cgttgaggg cctgtgtatt ttttccagga cgtggtaaag gtgactctgg atgttcagat 4200  
 acatgggcat aagcccgtct ctgggtgga ggtagacca ctgcagagct tcatgctgcg 4260  
 ggggtgtgtt gtagatgac cagtcgtagc aggagcgctg ggcgtggtgc ctaaaaatgt 4320  
 ctttcagtag caagctgatt gccaggggca ggccttgggt gtaagtgttt acaaagcgg 4380  
 taagctggga tgggtgcata cgtgggata tgagatgcat cttggactgt atttttaggt 4440  
 tggctatggt cccagccata tccctccggg gattcatgtt gtgcagaacc accagcacag 4500  
 tgtatccggt gcacttgga aatttgcatt gtagcttaga aggaaatgcg tggaaagact 4560  
 tggagacgcc cttgtgacct ccaagatttt ccatgcattc gtccataatg atggcaatgg 4620  
 gccacgggc ggcggcctgg gcgaagatat tctgggac actaacgtca tagttgtgtt 4680  
 ccagatgag atcgtcatag gccattttta caaagcggg gcggagggtg ccagactgcg 4740  
 gtataatggt tccatccggc ccagggcggt agttaccctc acagatttgc atttccacg 4800  
 ctttgagttc agatggggg atcatgtcta cctgcggggc gatgaagaaa acggtttccg 4860  
 gggtagggga gatcagctgg gaagaaagca ggttcctgag cagctgcgac ttaccgcagc 4920  
 cggtagggccc gtaaatcaca cctattaccg ggtgcaactg gtagttaaga gagctgcagc 4980

tgccgtcatc cctgagcagg ggggccactt cgtaagcat gtccctgact cgcatgtttt 5040  
 ccctgaccaaa atccgccaga aggcgctcgc cgcgccagcga tagcagttct tgcaagggaag 5100  
 caaagttttt caacggtttg agaccgtccg ccgtaggcat gcttttgagc gtttgaccaaa 5160  
 gcagttccag gcgggtccac agctcggtea cctgctctac ggcattctga tccagcataa 5220  
 ctctcgtttt cgcgggttg ggcggctttc gctgtacggc agtagtcggt gctcgtccag 5280  
 acgggccagg gtcattgtctt tccacgggag cagggtcctc gtcagcgtag tctgggtcac 5340  
 ggtgaagggg tgccgtccgg gctgcgcgct ggccagggtg cgcttgaggc tggctcctgct 5400  
 ggtgctgaag cgctgcgggt ctccgccctg cgcgtcggcc aggttagcatt tgaccatggt 5460  
 gtcatagtcc agccccctcc cgccgtggcc cttggcgcgc agcttgccct tggaggaggc 5520  
 gccgcacgag gggcagtgca gacttttgag ggcgtagagc ttgggcgcga gaaataccga 5580  
 ttccggggag taggcatccg cgccgcaggc cccgcagacg gtctcgcat ccacgagcca 5640  
 ggtgagctct ggcggttcgg ggtcaaaaac cagggttccc ccatgctttt tgatgcgttt 5700  
 ctccactctg tcttccatga gccggtgtcc acgctcgggt acgaaaaggc tgtccgtgtc 5760  
 cccgtataca gacttgagag gcctgtcctc gagcgggtgt cccggtcctt cctcgtatag 5820  
 aaactcggac cactctgaga caaaggctcg cgtccaggcc agcacgaagg aggttaagt 5880  
 ggaggggtag cggctggtgt ccactagggt tccactcgc tccagggtgt gaagacacat 5940  
 gtgcgccctc tcggcatcaa ggaagggtgat tggttttag gtgtaggcca cgtgaccggg 6000  
 tgttccctgaa ggggggctat aaaagggggt gggggcgcggt tcgtcctcac tctctccgc 6060  
 atcgtgtgtc gcgaggggca gctgttgggg tgagtactcc ctctgaaaag cgggcatgac 6120  
 tctcgcgcta agattgtcag tttccaaaaa ctggtcagaa aagacaatct tttgtgtgtc 6240  
 ggtgatgcct ttgagggttg ccgcatccat ctggtcagaa aacttgccga tggagcgagc 6300  
 aagcttggtg gcaaacgacc cgtagagggc gttggacagc aacttgccga tggagcgagc 6360  
 ggttggtgtt ttgtcgcgat cgcgcgcgtc cttggccgag atgttttagc gcacgtattc 6420  
 gcgcgcaacg caccgccatt cgggaaagac ggtggtgcgc tcgtcgggca ccagggtcac 6480  
 gcgccaaccg cggttgtgca ggggtgacaag gtcaacgctg gtggtacct ctccgcgtag 6540  
 gcgctcgttg gtccagcaga ggcggccgccc cttgcgcgag cagaatggcg gttaggggtc 6600  
 tagctcgcgc tctccggggg ggtctgcgtc cacggtaaag accccgggca gcaggcgcg 6660  
 gtcgaagtag tctatcttgc atccttgcaa gtctagcgcc tgctgccatg cgcgggcggc 6720  
 aagcgcgcgc tcgtatgggt tgagtggggg acccatggc atgggggtgg tgagcgcgga 6780  
 ggcgtacatg ccgcaaatgt cgtaaacgta gaggggctct ctgagtattc caagatatgt 6840  
 agggtagcat cttccaccgc ggtgctggc gcgcacgtaa tctgatatgt cgtgcgaggg 6900  
 agcgaggagg tggggaccga ggttgcctac ggcgggctgc tctgctcgga agactatctg 6960  
 cctgaagatg gcatgtgagt tggatgatag ggttgacgc tggaagacgt tgaagctggc 7020  
 gtctgtgaga cctaccgcgt cacgcacgaa ggaggcgtag gagtcgcgca gcttgttgac 7080  
 cagctcggcg gtgacctgca cgtctagggc gcagtagtcc aggggttctt tgatgatgtc 7140  
 atacttatcc tgtccctttt tttccacag ctccggttg aggacaaact cttcgcggtc 7200  
 tttccagtag tcttgatcg gaaaccgcgc ggccctcgaa cggtaagagc ctgcatgta 7260  
 gaactggttg acggcctggt aggcgcagca tcccttttct acgggtagcg cgtatgcctg 7320  
 cgcgcccttc cggagcgagg tgtgggtgag tccgcccctg tccagagca aaaagtcctg 7380  
 gtactggtat ttgaagtcag tgtcgtcgca tccgcccctg tccagagca aaaagtcctg 7440  
 gcgctttttg gaacgcggat ttggcagggc gaaggtgaca tctgtgaaga aacggttgtt 7500  
 cgcgcgaggc ataaagtgtg gtgtgatgcg gaagggtccc ggcacctcgg ccacaatgta 7560  
 aattacctgg gcggcgagca cgtctcgtc aaagccgttg atgttgtggc cctcgtaggt 7620  
 aagttccaag aagcgcgga tggccttgat ggaaggcaat tttttaagtt gatgagggtt 7680  
 gagctcttca ggggagctga gcccggtgctc tgaaagggccc cagtctgcaa ggtcgcgaaa 7740  
 ggaagcgagc aatgagctcc acaggctacg ggccattagc atttgcagggt ggtcgcgaaa 7800  
 ggtcctaacc tggcgacctt tggccatttt ctctgggtg atgcagtaga aggtaagcgg 7860  
 gtcttgttcc cagcgttccc atccaagggt cgcggctagg tctcgcgcgg cagtcactag 7920  
 aggtcatctc ccgccgaact tcatgaccag catgaagggc acgagctgct tcccaaaggc 7980  
 ccccatccaa gtataggtct ctacatcgta ggtgacaaa agacgctcgg tgcgaggatg 8040  
 cgagccgagc ggggaagaact ggatctccc ccaccaattg gaggagtggc tattgatgtg 8100  
 gtgaaagtag aagtcctgc gacgggcccga acactcgtgc tggcttttgt aaaaacgtgc 8160  
 gcagtagtgg cagcgggtga cgggctgtac atcctgcacg aggttgacct gacgaccggc 8220  
 cacaagggaag cagagtggga atttgagccc ctgcgcctggc ggggttggct ggtggtcttc 8280  
 tacttcggct gcttgtcctt gaccgtctgg ctgctcgagg ggagttacgg gcttgatgac 8340  
 caccacgccc cgcgagccca aagtcagat gtcgcgcgc ctggagctcc cgcggcgtca ggtcaggcgg 8400  
 aacatcgcgc agatgggagc tgtccatggt ctggagctcc cgggctagat ccagggtgata 8460  
 gagctcctgc aggtttacct cgcatagacg ggtcaggggc cgggctagat ccaggtgata 8520  
 cctaatttcc aggggctggt tgggtggcgc gtcgatggct tgcaaggagg ggggtgtcct 8580  
 cggcgcgact acggtaccgc gcggcgggcg gtggcccgcg ggggtcctcg acccgccggg 8640  
 atctaaaagc ggtgacgcgg gcgagccccc ggaggtaggg ggggctcggc cgcgcgtagg 8700  
 agagggggca ggggcacgct gcggcgcgcg gcgggcagga gctggtgctg ctcgctgaa 8760  
 ttgctggcga acgcgacgac gcggcggttg atctcctgaa tctggcgcc ctagatcaat 8820  
 acgacggggc cggtagctt gagcctgaaa gagagttcga agttgtcttg atagggcagc 8880  
 ttgacggcgg cctggcgcaa aatctcctgc acgtctcctg agttgtcttg atagggcagc 8940  
 tcggccatga actgctcgat ctcttccctc tggagatctc cgcgtccggc tcgctccacg

```

gtggcgccga ggtcgttga aatgcgggcc atgagctgcg agaagcggtt gaggcctccc 9000
tcgttccaga cgcggctgta gaccacgccc ccttcggcat cgcgggcgcg catgaccacc 9060
tgccgcagat tgagctccac gtgcggggcg aagacggcgt agtttcgcag gcgctgaaag 9120
aggtagttga gggtaggtgc ggtgtgttct gccacgaaga agtacataac ccagcgtcgc 9180
aacgtggatt cgttgatata ccccaaggcc tcaaggcgct ccatggcctc gtagaagtc 9240
acggcgaaat tgaaaaaact ggagttgcgc gccgacacgg ttaactcctc ctccagaaga 9300
cggatgagct cggcgacagt gtcgcgcacc tcgcgctcaa aggctacagg ggcctcttct 9360
tcttcttcaa tctctcttcc cataagggcc tcccccttct cttcttctgg cggcggtggg 9420
ggagggggga cacggcgcg acgacggcg accgggaggc ggtcgacaaa gcgctcgatc 9480
atctccccgc ggcgacggcg catggtctcg gtgacggcg gcccggtctc gcggggcgcg 9540
agttggaaga cgcgcggcgt catgtcccgc ttatgggttg gcggggggct gccatgcggc 9600
agggatacgg cgctaacgat gcatctcaac aattgttgt taggtactcc gccgcggagg 9660
gacctgagcg agtccgcac gaccggatcg gaaaacctct cgagaaggc gtctaaccag 9720
tcacagtgcg aaggtaggct gagcaccgtg gcggcgggca gcggcgggcg gtcggggttg 9780
tttctggcgg aggtgctgct gatgatgtaa ttaaagtagg cggctcttag acggcggatg 9840
gtcgacagaa gcaccatgtc cttgggtccg gcctgctgaa tgcgcaggcg gtcggccatg 9900
ccccaggctt cgttttgaca tcggcgcgagg tctttgtagt agtcttgcac gagcctttct 9960
accggcactt cttcttctcc ttctcttctg cctgcatctc ttgcatctat cgtcgcggcg 10020
gcggcgaggt ttggcgccgt gtggcgccct cttctccca tgcgtgtgac cccgaagccc 10080
ctcatcggtc gaagcagggc taggtcgcg acaacgcgct cggctaatat ggcctgctgc 10140
acctgcgtga gggtagactg gaagtcatcc atgtccaaa agcgggtggt tgcgcccggt 10200
ttgatggtgt aagtgcagtt ggccataacg gaccagttaa cgtctctggt acccggtgc 10260
gagagctcgg gtacctgag acgcgagtaa gccctcgagt caaatacgta gtcgttgcaa 10320
gtccgcacca ggtactggt tcccacaaa aagtgcggcg gcggctggcg gtagagggcg 10380
cagcgtaggg tggccggggc tccggggggc agatcttcca acataaggcg atgatatccg 10440
tagatgtacc tggacatcca ggtgatgcc gcggcggttg tggaggcgcg cgaaaagtcg 10500
cggacgcggt tccagatgtt gcgcagcggc aaaaagtgct ccatggtcgg gacgctctgg 10560
ccgtcaggc gcgcgcaatc gttgacgctc tagaccgtgc aaaaggagag cctgtaagcg 10620
ggcactcttc cgtggtctgg tgataaaatt cgcaagggt tcatggcgga cgaccggggt 10680
tcgagccccg tatccggcgg tccgcggtga tccatgcggt taccgcccgc gtgtcgaacc 10740
caggtgtgcg acgtcagaca acgggggagt gctccttttg gcttctctcc aggcgcggcg 10800
gctgctgcgc tagctttttt ggccactggc cgcgcgcagc gtaagcggtt aggcgtgaaa 10860
gcgaaagcat taagtggctc gtccctgta gccggagggt tattttccaa gggttgagtc 10920
gcgggacccc cggttcgagt ctcggaccgg ccggactgcg gcgaacgggg gtttgcctcc 10980
ccgtcatgca agaccccgtc tgcaaattcc tccggaaaca gggacgagcc cttttttg 11040
ttttccaga tgcacccggt gctgcggcag atgcgcccc ctectcagca gcggcaagag 11100
caagagcagc ggcagacatg cagggcaccc tcccctctc ctaccgcgtc aggaggggcg 11160
acatccgcgg ttgacgcggc agcagatggt gattacgaac cccgcggcg ccgggcccgg 11220
cactacctgg acttgagga gggcgaggcg ctggcgcgcg taggagcgcc ctctctgag 11280
cggtagccaa ggtgagcgt gaagcgtgat acgcgtgagg cgtacgtgcc gcggcagaa 11340
ctgttttcgc accgcgaggg agaggagccc gaggagatgc gggatcgaaa gttccacgca 11400
ggcgcgagc tgcggcatgg cctgaatcgc gagcggttgc tgcgcgagga ggactttgta 11460
ccgacgcgc gaaccgggat tagtcccgcg cgcgcacacg tggcgggcgc cgacctgga 11520
accgcatac agcagacggt gaaccaggag attaactttc aaaaaagctt taacaaccac 11580
gtgcgtacgc ttgtggcgcg cgaggaggtg gctataggac tgatgcatct gtgggacttt 11640
gtaagcgcgc tggagcaaaa cccaaatagc aagccgctca tggcgagct gttccttata 11700
gtgcagcaca gcagggacaa cagggcattc agggatgcgc tgctaaacat agtagagccc 11760
gagggccgct ggctgctcga ttgataaac atctgcaga gcatagtgt gcaggagcgc 11820
agcttgagcc tggctgacaa ggtggccgcc atcaactatt ccatgcttag cctgggcaag 11880
ttttacgccc gcaagatata ccataccctc tacgttccca tagacaagga ggtaaagatc 11940
gaggggttct acatgcgcat ggcgtgaag gtgcttacct tgagcgacga cctgggctgt 12000
tatcgcaacg agcgcatcca caaggccgtg agcgtgagcc ggcggcgcg gctcagcgac 12060
cgcgagctga tgcacagcct gcaaagggcc ctggctggca cgggcagcg cgatagagag 12120
gccgagtcct actttgacgc gggcgctgac ctgcgctggg ccccaagcgc acgcgcctg 12180
gaggcagctg gggccggacc tgggctggcg gtggcaccgc cgcgcgctgg caacgtcggc 12240
ggcgtggagg aatatgacga ggacgatgag tacgagccag aggacggcga gtactaagcg 12300
gtgatgttct tgatcagatg atgcaagacg caacggaccc ggcggtgcgg gcggcgctgc 12360
agagccagcc gtccggcctt aactccacgg acgactggcg ccaggtcatg gaccgcatca 12420
tgtcgtgac tgcgcgcaat cctgacgctg tccggcagca gccgcaggcc aaccggctct 12480
ccgcaattct ggaagcggtg gtcccgcgcg gcgcaaaccc cacgcacgag aaggtgctgg 12540
cgatcgtaaa cgcgtggcc gaaaacagg ccacccggcc cgacgaggcc ggcctggtct 12600
acgacgcgct gcttcagcgc ggggctcggt ggggatgtg cgcgagggcg tggcgagcg tgagcgcgcg accaacctgg 12660
accggtggt ggggatgtg ctccatggtt gcaactaaac cttctctgag tacacagccc gccaacgtgc 12720
gcaacctggg ctccatggtt gcaactaaac cttctctgag tacacagccc gccaacgtgc 12780
cgcggggaca ggaggactac accaactttg tgagcgact gcggctaag gtgactgaga 12840
caccgcaaa tgaggtgtac cagtctgggc cagactattt tttccagacc agtagacaa 12900

```

gectgcagac cgtaaacctg agccaggctt tcaaaaactt gcaggggctg tgggggggtgc 12960  
 gggctccccc agggcgaccg gcgaccgtgt ctacttgct gacgcccac tcgcccctgt 13020  
 tgctgctgct aatagcgccc ttcacggaca gtggcagcgt gtcccgggac acatacctag 13080  
 gtcaattgct gacactgtac cgcgaggcca taggtcaggc gcatgtggac gagcatactt 13140  
 tccaggagat tacaagtgtc agccgcgcgc tggggcagga ggacacgggc agcctggagg 13200  
 caaccctaaa ctacctgctg accaaccggc ggacagaagat cccctcgttg cacagttaa 13260  
 acagcgagga ggagcgcatt ttgcgctacg tgcagcagag cgtgagcctt aacctgatgc 13320  
 gcgacggggg aacgcccagc gtggcgctgg acatgaccgc gcgcaacatg gaaccgggca 13380  
 tgtatgcctc aaaccggccg tttatcaacc gcctaattga ctacttgcat cgcgcggccg 13440  
 ccgtgaaccc cgagtatttc accaatgcca tcttgaaccc gactggcta ccgcccctg 13500  
 gtttctacac cgggggattc gaggtgcccg agggtaacga tggattcctc tgggacgaca 13560  
 tagacgacag cgtgttttcc ccgcaaccgc agaccctgct agagttgcaa cagcgcgagc 13620  
 aggcagaggg ggcgctgcca aaggaaagct tccgcaggcc aagcagcttg tccgatctag 13680  
 gcgctgcggc cccgcggtca gatgctagta gccatttcc aagcttgata ggtctctta 13740  
 ccagcactcg caccacccgc ccgcgcctgc tggcgagga ggagtaccta aacaactcgc 13800  
 tgctgcagcc gcagcgcgaa aaaaacctgc ctccggcatt tcccaacaac gggatagaga 13860  
 gcctagtggg caagatgagt agatggaaga cgtacgcgca ggagcacagg gacgtgccag 13920  
 gcccgcgccc gccacccgct cgtcaaaggc acgaccgtca gcggggctct gtgtgggagg 13980  
 acgatgactc ggcagacgac agcagcgctc tggatttggg agggagtggc aaccgcttg 14040  
 cgcaccttcg ccccgagctg gggagaatgt tttaaaaaaa aaaaagcatg atgcaaaata 14100  
 aaaaactcac caaggccatg gcaccgagcg ttggttttct tgtattcccc ttagtatgcy 14160  
 gcgcgcggcg cgttatgagg aaggtcctcc tccctcctac gagagtgtgg tgagcgcggc 14220  
 gccagtggcg gcggcgctgg gttctccctt cgatgctccc ctggaccgcg cgtttgtgccc 14280  
 tccgcggtac ctgcggccta ccggggggag aaacagcatc cgttactctg agttggcacc 14340  
 cctattcgac accacccgct tgtacctggt ggacaacaag tcaacggatg tggcatccct 14400  
 gaactaccag aacgaccaca gcaactttct gaccacggtc attcaaaaata atgactacag 14460  
 cccgggggag gcaagcacac agaccatcaa tcttgacgac cggctcgact ggggcgcgca 14520  
 cctgaaaacc atcctgcata ccaacatgcc aaatgtgaac gagtctcatg ttaccaataa 14580  
 gtttaaggcg cgggtgatgg tgcgcgctt gcctactaag gacaatcagg tggagctgaa 14640  
 atacgagtgg gtggagttca cgctgcccga gggcaactac tccgagacca tgaccataga 14700  
 ccttatgaac aacgcgatcg tggagcacta cttgaaagtg ggcagacaga acggggttct 14760  
 ggaaagcgac atcggggtaa agtttgacac ccgcaacttc agactggggg ttgaccctcg 14820  
 cactggtctt gtcatgcctg gggatatata aaacgaagcc ttccatccag acatcatttt 14880  
 gctgccagga tgccgggtgg acttcaccca cagccgctg agcaacttgt tgggcatccg 14940  
 caagcggcaa ccttccagg agggctttag gatcacctac gatgatctgg aggggtgtaa 15000  
 cattcccgca ctggttgatg tggacgccta ccaggcgagc ttgaaagatg acaccgaaca 15060  
 gggcgggggg ggcgcaggcg gcagcaacag cagtggcagc ggcgcggaag agaactccaa 15120  
 cgcgcgagcc gcggcaatgc agccggtgga ggacatgaac gatcatgcca ttcgcggcga 15180  
 cacctttgcc acacgggctg aggaagaagc cgctgaggcc gaagcagcgg ccgaagctgc 15240  
 cgcccccgct gcgcaaccgc aggtcgagaa gcctcagaag aaaccgggtg tcaaacccct 15300  
 gacagaggac agcaagaaac gcagttacaa cctaataagc aatgacagca ccttacccta 15360  
 gtaccgcagc tggtaacctg catacaacta cggcgaccct cagaccgga tccgctcatg 15420  
 gaccctgctt tgactcctg acgtaacctg cggctcggag caggtctact ggtcgttgcc 15480  
 agacatgatg caagaccccg tgaccttccg ctccacgcgc cagatcagca actttccggt 15540  
 ggtggggccc gagctgttgc ccgtgcactc caagagcttc tacaacgacc aggcctgcta 15600  
 ctcccaactc atccgccagt ttacctctct gaccacgctg ttcaatcgct ttcccagaa 15660  
 ccagattttg gcgcgcccgc cagccccac catcaccacc gtcagtgaat acgttccctg 15720  
 tctcacagat cacgggacgc taccgtgctg caacagcatc ggaggagtc agcgagtgc 15780  
 cattactgac gccagacgcc gcacctgccc ctacgtttac aaggccctgg gcatagtctc 15840  
 gccgcgcgct ctatcgagcc gcactttttg agcaagcatg tccatcctta tatcgcccag 15900  
 caataacaca ggctggggcc tgcgcttccc aagcaagatg tttggcgggg ccaagaagcg 15960  
 ctccgaccaa caccagtgcc gcgtgcgcgg gactaccgc gcgcctggg gcgcgcacaa 16020  
 acgcggccgc actggggcga ccaccgtcga tgacgccatc gacgcggtgg tggaggaggc 16080  
 gcgcaactac acgcccacgc cgccaccagt gtccacagtg gacgcggcca ttcagaccgt 16140  
 ggtgcgcgga gcccggcgct atgctaaaat gaagagacgg cggaggcgcg tagcacgtcg 16200  
 ccaccgcgcg cgacccggca ctgcgcgcca acgcgcggcg gcggccctgc ttaaccgcgc 16260  
 acgtcgcacc ggcgcagggc cggccatgct ggccgctcga aggtggccg cggttattgt 16320  
 cactgtgccc cccaggtcca ggcgacgagc ggccgcgcca gactcggtta ccattagtgc 16380  
 tatgactcag ggtcgagggg gcaacgtgta ttgggtgcgc agagccgcgg ccattagtgc 16440  
 cgtgcccgtg cgcacccgccc ccccgcgcaa ctgattgca agaaaaaact acttagactc 16500  
 gtactgttgt atgtatccag cggcggcgcc gcgcaacgaa gctatgtcca agcgcaaaat 16560  
 caaagaagag atgctccagg tcatcgccgc ggagatctat ggcccccgga agaaggaaga 16620  
 gcaggattac aagccccgaa agctaaagcg ggtcaaaaag aaaaagaaag atgatgatga 16680  
 tgaacttgac gacgaggtgg aactgctgca cgtaccgcg cccagcgac gggtagctg 16740  
 gaaaggctcg cgcgtaaaac acccgacact acctagctc ttacgcccgc 16800  
 tgagcgcctc acccgacact acaagcgcgt gtatgatgag gtgtacggcg acgaggacct 16860



gcttgagcag gccaacgagc gcctcgggga gtttgcctac ggaaagcggc ataaggacat 16920  
 gctggcggtt cgcgtggacg agggcaaccc aacacctagc ctaaagcccg taactactgca 16980  
 gcaggtgctg ccgcgcgttg caccgtccga agaaaagcgc ggccctaaagc gcgagtcttg 17040  
 tgacttggca cccaccgtgc agctgatggt acccaagcgc cagcgactgg aagatgtctt 17100  
 ggaaaaaatg accgtggaac ctgggctgga gcccgaggtc cgcgtgcggc caatcaagca 17160  
 ggtggcgccg ggactgggcg tgcagaccgt ggacgttcag ataccacta ccagtagcac 17220  
 cagtattgcc accgccacag agggcatgga gacacaaacg tccccggtt cctcagcgg 17280  
 ggcggtatgcc gcggtgcagg cgttcgctgc ggccgcgtcc aagacctcta cggaggtgca 17340  
 aacggaccog tggatgtttc gcgtttcagc ccccgcgcg ccgcgcggtt cgaggaagta 17400  
 cggcgccgccc agcgcgctac tgcccgaata tgccctacat ccttccattg cgcctacccc 17460  
 cggctatcgt ggctacacct accgccccag aagacgagca actaccgcac gccgaaccac 17520  
 cactggaacc cgcgcgcgcc gtcgccgtcg ccagcccggt ctggccccga tttccgtgcg 17580  
 caggggtggct cgcgaaggag gcaggaccct ggtgctgcca acagcgcgct accacccag 17640  
 catcgtttta aagccggtct ttgtggttct tgcagatatg gcctcacct gccgcctccg 17700  
 tttcccggtg ccgggattcc gaggaagaat gcaccgtagg aggggcatgg ccggccacgg 17760  
 cctgacgggc ggcatgctgc gtgcgcacca ccgcgcggcg cgcgcgtcgc accgtcgcac 17820  
 gcgcggcggt atcctgcccc tccctattcc actgatcgcc gcggcgattg gcgcctgccc 17880  
 cggaattgca tccgtggcct tgcaggcgca gagacactga ttaaaaacaa gttgcatgtg 17940  
 gaaaaatcaa aataaaaagt ctggactctc acgctcgctt ggtcctgtaa ctattttgta 18000  
 gaatggaaga catcaacttt gcgtctctgg cccgcgcaca cggctcgcgc ccgttcatgg 18060  
 gaaactggca agatatcgcc accagcaata tgagcgggtg cgccttcagc tggggctcgc 18120  
 tgtggagcgg cattaaaaat ttcggttcca ccgttaagaa ctatggcagc aaggcctgga 18180  
 acagcagcac agccagatg ctgagggata agttgaaaga gcaaaaattc caacaaaagg 18240  
 tggtagatgg cctggcctct ggcatagcg ggtggtgga cctggccaac caggcagtcg 18300  
 aaaataagat taacagtaag cttgatcccc gccctccgt agaggagcct ccaccggcgc 18360  
 tggagacagt gtctccagag gggcgtggcg aaaagcgtcc gcgccccgac aggggaagaaa 18420  
 ctctggtgac gcaaatagac gagcctccct cgtacaggga ggccagcac acaccgtaa 18540  
 ccaccaccog tcccatcgcg cccatggcta ccgagagacc tgtgctgcca ggccccaccg 18600  
 cgctggacct gcctcccccc agccgcgcgt cctcgcgcgc cgcgcgcagc ggtccgcgat 18660  
 cggtgcccgc cgtagccagt ggcaactggc aaagcacact gaacagcatc gtgggtctgg 18720  
 ggttgcaatc cctgaagcgc cgacgatgct tctgaatagc taacgtgtcg tatgtgtgtc 18780  
 atgtatgctg ccatgtcgcc gccagaggag ctgctgagcc gccgcgcgcc cgctttccaa 18840  
 gatggctacc ccttcgatga tgccgcagtg gtctttacatg cacatctcgg gccaggacgc 18900  
 ctcgagtagc ctgagccccg ggctggtgca gtttgcgcgc gccaccgaga cgtacttcag 18960  
 cctgaataac aagtttagaa accccacggg ggcgcctacg cagcagctga ccacagaccg 19020  
 gtcccagcgt ttgacgctgc ggttcatccc tgtggaccgt gaggatactg cgtactcgta 19080  
 caaggcgcgg ttcaccctag ctgtgggtga taaccgtgtg ctggacatgg cttccacgta 19140  
 ctttgacatc cgcggcgtgc tggacagggg ccctactttt aagccctact ctggcactgc 19200  
 ctacaacgcc ctggctccca aggttgcccc aaatccttgc gaatgggatg aagctgctac 19260  
 tgctcttgaa ataaacctag aagaagagga cgatgacaac gaagacgaag tagacgagca 19320  
 agctgagcag caaaaaactc acgtatttgg gcaggcgctt tattctggta taaatattac 19380  
 aaaggagggt attcaaatag gtgtcgaagg tcaaacacct aaatatgccg ataaaacatt 19440  
 tcaacctgaa cctcaaatag gagaatctca gtggtacgaa actgaaatta atcatgcagc 19500  
 tgggagagtc cttaaaaaga ctaccccaat gaaaccatgt tacggttcat atgcaaaacc 19560  
 cacaatgaa aatggaggcg aaggcattct tgtaaagcaa caaatggaa agctagaag 19620  
 tcaagtggaa atgcaatttt tctcaactac tgaggcgacc gcaggcaatg gtgataactt 19680  
 gactcctaaa gtggtattgt acagtgaaga tgtagatata gaaaccccag acactcatat 19740  
 ttctttacatg cccactatta aggaaggtaa ctacagagaa ctaatgggcc aacaatctat 19800  
 gcccaacagc cctaattaca ttgcttttag ggacaatttt attggtctaa tgtattacaa 19860  
 cagcacgggt aatatgggtg ttctggcggg ccaagcatcg cagttgaatg ctgtttaga 19920  
 tttgcaagac agaaacacag agctttcata ccagcttttg cttgattcca ttggttaga 19980  
 aaccaggtac ttttctatgt ggaatcaggc tggtgacagc tatgatccag atgttaga 20040  
 tattgaaaat catggaactg aagatgaact tccaaattac tgctttccac tgggaggtgt 20100  
 gattaataca gagactctta ccaaggtaaa acctaaaaca ggtcaggaat atggatggga 20160  
 aaaagatgct acagaatttt cagataaaaaa tgaaataaga gttggaaata attttgccat 20220  
 ggaaatcaat ctaaattgcca acctgtggag aaatttctctg tactccaaca tagcgtgta 20280  
 tttgcccgac agctaaagt acagtccttc caacgtaaaaa atttctgata acccaaacac 20340  
 ctacgactac atgaacaagc gagtgggtggc tcccgggtta gtggactgct acattaacct 20400  
 tggagcacgc tggctccttg actatatgga caacgtcaac ccatttaacc accaccgcaa 20460  
 tgctggcctg cgctaccgct caatgttgct gggcaatggg cgctatgtgc ctttccacat 20520  
 ccaggtgcct cagaagttct ttgccattaa aaacctcctt ctctgcccgg gctcatacac 20580  
 ctacgagtgg aacttcagga aggatgttaa catgggttctg cagagctccc taggaaatga 20640  
 cctaagggtt gacggagcca gcattaagtt tgatagcatt tgcctttacg ccacttctt 20700  
 ccccatggcc cacaacaccg cctccacgct tgaggccatg cttagaacacg acaccaacga 20760  
 ccagtccttt aacgactatc tctccgcgcg caacatgctc taccctatac ccgccaacgc 20820

taccaacgtg	cccatatcca	tcccctcccg	caactgggcg	gctttccgcg	gctgggcctt	20880
cacgcgcctt	aagactaagg	aaaccccatc	actgggctcg	ggctacgacc	cttattacac	20940
ctactctggc	tctataccct	acctagatgg	aaccttttac	ctcaaccaca	cctttaagaa	21000
ggtggccatt	acctttgact	cttctgtcag	ctggcctggc	aatgaccgcc	tgcttaccce	21060
caacgagttt	gaaattaagc	gctcagttga	cggggagggt	tacaacgttg	cccagtgtaa	21120
catgacaaa	gactggttcc	tggtacaaat	gctagctaac	tacaacattg	gctaccaggg	21180
cttctatata	ccagagagct	acaaggaccg	catgtactcc	ttctttagaa	acttccagcc	21240
catgagccgt	caggtgggtg	atgatactaa	atacaaggac	taccaacagg	tgggcatcct	21300
acaccaacac	aacaactctg	gatttgttgg	ctaccttgcc	cccaccatgc	gcgaaggaca	21360
ggcctaccct	gctaacttcc	cctatccgct	tataggcaag	accgcagttg	acagcattac	21420
ccagaaaaag	tttctttgcg	atcgacccct	ttggcgcatc	ccattctcca	gtaactttat	21480
gtccatgggc	gcactcacag	acctgggcca	aaacctttct	tacgccaact	ccgcccacgc	21540
gctagacatg	acttttgagg	tggtatcccat	ggacgagccc	acccttcttt	atgttttgtt	21600
tgaagtcttt	gacgtgggtc	gtgtgcacgc	gccgcacgcg	ggcgtcatcg	aaaccgtgta	21660
cctgcgcacg	cccttctcgg	ccggcaacgc	cacaacataa	agaagcaagc	aacatcaaca	21720
acagctgccg	ccatgggctc	cagtgagcag	gaactgaaag	ccattgtcaa	agatcttggg	21780
tgtgggcat	attttttggg	cacctatgac	aagcgctttc	caggctttgt	ttctccacac	21840
aagctcgcct	gcgccatagt	caatacggcc	ggtcgcgaga	ctggggcggt	acactggatg	21900
gcctttgcct	ggaacccgca	ctcaaaaaca	tgctacctct	ttgagccctt	tggtctttct	21960
gaccagcgac	tcaagcaggt	ttaccagttt	gagtacgagt	cactcctgcg	ccgtagcgcc	22020
attgcttctt	ccccgcaccg	ctgtataacg	ctggaaaagt	ccacccaaag	cgtacagggg	22080
cccaactcgg	ccgcctgtgg	actattctgc	tgcatgtttc	tccacgcctt	tgccaactgg	22140
ccccaaactc	ccatggatca	caaccccacc	atgaacctta	ttaccggggg	acccaactcc	22200
atgctcaaca	gtccccaggt	acagcccacc	ctgcgtcgca	accaggaaca	gctctacagc	22260
ttcctggagc	gccactcgcc	ctacttccgc	agccacagtg	cgagattag	gagcgccact	22320
tctttttgtc	acttgaaaaa	catgtaaaaa	taatgtacta	gagacacttt	caataaaggc	22380
aaatgctttt	atttgtacac	tctcgggtga	ttattttacc	ccacccttgc	cgtctgcgcc	22440
gtttaaaaat	caaaggggtt	ctgccgcgca	tcgctatgcg	ccactggcag	ggacacgttg	22500
gatactgggt	gtttagtgtc	ccacttaaac	tacggcacaa	ccatccgcgg	cagctcgggt	22560
aagttttcac	tccacaggct	gcgcaccatc	accaacgcgt	ttagcaggtc	gggcgcggat	22620
atcttgaagt	cgcagttggg	gcctccgccc	tgccgcgcgc	agttgcgata	cacagggttg	22680
cagcactgga	acactatcag	cgcggggttg	tgacgcgttg	ccagcacgct	cttgtcggag	22740
atcagatccg	cgtccaggtc	ctccgcgttg	tcaggggcga	acggagtcaa	ctttggtagc	22800
tgctttccca	aaaagggcgc	gtgcccaggc	tttgagttgc	actcgcaccg	tagtggcatc	22860
aaaaggtgac	cgtgcccggt	ctgggcgtta	ggatacagcg	cctgcataaa	agccttgatc	22920
tgcttaaaag	ccacctgagc	ctttgcgcct	tcagagaaga	acatgccgca	agacttgccg	22980
gaaaactgat	tgccgggaca	ggccgcgtcg	tgacgcgacg	accttgcgct	ggtgttggag	23040
atctgcacca	catctcggcc	ccaccggttc	tcacgatctc	tgcccttgct	agactgctcc	23100
ttcagcgcgc	gctgcccggt	ttcgctcgct	acatccattt	caatcacgtg	ctcttatttt	23160
atcataatgc	ttccgtgtag	acacttaagc	tcgccttcga	tctcagcgca	gcggtgcagc	23220
cacaacgcgc	agcccgtggg	ctcgtgatgc	ttgtaggtca	cctctgcaaa	cgaactgcag	23280
tacgcctcag	ggaatcgccc	catcatcgct	acaaaggctc	tggtgtggtg	gaaggtcagc	23340
tgcaacccgc	ggtgctcctc	gttcagccag	gtcttgcata	cggccgcgag	agcttcacat	23400
tggtcaggca	gtagtttgaa	gttcgccttt	agatcgttat	ccacgtggta	cttgtccatc	23460
agcgcgcgcg	cagcctccat	gccttctctc	cacgcagaca	cgatcggcac	actcagcggg	23520
ttcatcaccc	taatttcaact	ttccgcttcg	ctgggctctt	cctcttcctc	ttgcgtccgc	23580
ataccacgcg	ccactgggtc	gtcttcatte	agccgcgcga	ctgtgcgctt	acctcctttg	23640
ccatgcttga	ttagcacccg	tggtttgctg	aaacccacca	tttgtagcgc	cacatcttct	23700
ctttcttctc	cgtgtgccac	gattacctct	ggtgatggcg	ggcgctcggg	cttggggaga	23760
gggcgcttct	ttttcttctt	gggcgcgaat	gccaaatccg	ccgcgcgagg	cgatggccgc	23820
gggctgggtg	tgccgggcac	cagcgcgtct	tgtgatgagt	cttcctcgct	ctcggactcg	23880
atacgcgcgc	tcacccgctt	ttttgggggc	gcccggggag	gcggcggcga	cggggacggg	23940
gacgacacgt	cctccatggt	tgggggacgt	cgcgcgcgac	cgctccgcgc	ctcgggggtg	24000
gtttcgcgct	gctcctcttc	ccgactggcc	atttcttctt	cctataggca	gaaaaagatc	24060
atggagtcag	tcgagaagaa	ggacagccta	accgccccct	ctgagttcgc	caccaccgcc	24120
tccaccgatg	ccgccaacgc	gcctaccacc	ttccccgtcg	aggcaccccc	gcttgaggag	24180
gaggaagtga	ttatcgagca	ggaccaggtg	tttgtaagcg	aagacgacga	ggaccgctca	24240
gtaccaacag	aggataaaaa	gcaagaccag	gacaaacgag	aggcaaacga	ggaacaagtc	24300
gggcgggggg	acgaaaggca	tgccgactac	ctagatgtgg	gagacgacgt	gctgttgaag	24360
catctgcagc	gccagtgccg	cattatctgc	gacgcgttgc	aagagcgagc	cgatgtgccc	24420
ctcgccatag	cggatgtcag	ccttgccctac	gaacgccacc	tattctcacc	gcgcgtaccc	24480
cccaaacgcc	agaaaaacgc	cacaatgcag	cccaaccgca	gcctcaactt	ctaccgcgta	24540
tttgccgtgc	cagaggtgct	tgccacctat	cacatctttt	tccaaaactg	caagataccc	24600
ctatcctgcc	gtgccaacgc	cagccgagcg	gacaagcagc	tgcccttgcg	gcagggcgct	24660
gtcatacctg	atatcgccct	gctcaacgaa	gtgccaaaaa	tctttgaggg	tcttgagcgc	24720
gacgagaagc	gcgcggcaaa	cgtctgcaa	caggaaaaaca	gcgaaaatga	aagtcactct	24780

```

ggagtgttgg tggaactcga ggggtgacaac gcgcgcctag ccgtactaaa acgcagcattc 24840
gaggtcacc cttttgccta cccggcactt aacctacccc ccaaggtcat gagcacagtc 24900
atgagtggagc tgatcggtgc cgtgctgcag cccctggaga gggatgcaaa tttgcaagaa 24960
caaacagagg agggcctacc cgcagttggc gacgagcagc tagcgcgctg gcttcaaacc 25020
cgcgagcctg ccgacttgga ggagcgacgc aaactaatga tggccgcagt gctcgttacc 25080
gtggagcttg agtgcattga gcggttcttt gctgacccgg agatgcagcg caagctagag 25140
gaaacattgc actacacctt tcgacagggc tacgtacgcc aggcctgcaa gatctccaac 25200
gtggagctct gcaacctggc ctctacacct ggaattttgc acgaaaaccg ccttgggcaa 25260
aacgtgcttc attccacgct caagggcgag gcgcgcgcgc actacgtccg cgactgcgtt 25320
tacttatttc tatgtacac ctggcagacg gccatgggag tttggcagca gtgcttgag 25380
gagtgaacc tcaaggagct gcagaaactg ctaaagcaaa acttgaagga cctatggagc 25440
gccttcaacg agcgtccgt ggccgcgcac ctggcggaca tcattttccc cgaacgcctg 25500
cttaaaaccc tgcaacaggg tctgcagac ttcaccagtc aaagcatgtt gcagaacttt 25560
aggaacttta tcctagagcg ctcaggaatc ttgcccgcga cctgctgtgc acttccctagc 25620
gactttgtgc ccattaagta ccgcgaatgc cctccgcgcg tttggggcca ctgtacacct 25680
ctgcagctag ccaactacct tgcctaccac tctgacataa tggaaagacgt gagcggtgac 25740
ggctactagg agtgtcactg tcgctgcaac ctatgacccc cgaccgcctc cctggtttgc 25800
aattcgcagc tgcttaacga aagtcaaat atcggtacct ttgagctgca gggctccctcg 25860
cctgacgaaa agtccgcgcg tccgggggtg aaactcactc cggggtgtgt gacgtcggtc 25920
taccttcgca aatttgtacc tgaggactac cagcccccag agattaggtt ctacgaagac 25980
caatcccgcc cgccaaatgc ggagcttacc gctgctgca ttaccaggg ccacattctt 26040
ggccaattgc aagccatcaa caagcccgcc caagagtttc tgctacgaaa gggacggggg 26100
gtttacttgg acccccagtc cggcgaggag ctcaacccaa tcccccgcc gccgcagccc 26160
tatcagcagc agccgcgggc ccttgtctcc caggatggca cccaaaaaga agctgcagct 26220
gccgcgcgca cccacggagc agggaggaata ctgggacagt caggcagagg aggttttga 26280
cgaggaggag gaggacatga tggaaagact ggagagccta gacgaggaag cttccgaggt 26340
cgaagaggtg tcagacgaaa caccgtcacc ctggttcgca ttccctcgc cggcgcacca 26400
gaaatcgcca accggttcca gcatggctac aaactccgct cctcaggcgc cgccggcact 26460
gcccgttcgc cgacccaacc gtagatggga caccactgga accagggcgc gtaagtccaa 26520
gcagccgcgc cgtttagccc aagagcaaca acagcgccaa ggctaccgct catggcgcg 26580
gcacaagaac gccatagttg cttgtctgca agactgtggg ggcaacatct ccttcgccc 26640
ccgctttctt ctctaccatc acggcgtggc cttccccctg aacatcctgc attactaccg 26700
tcctctctac agcccatact gcacccggcg cagcggcagc ggcagcaaca gcagcgcca 26760
cacagaagca aaggcgaccg gatagcaaga ctctgacaaa gcccaagaaa tccacagcg 26820
cggcagcagc agggaggaga gcgctgcgtc ttggcgccaa cgaacccgta tcgaccgcg 26880
agcttagaaa caggattttt cccactctgt atgctatatt tcaacagagc aggggccaag 26940
aacaagagct gaaaaataaa aacaggtctc tgcgatccct caccgcagc tgcctgtatc 27000
acaaaagcga agatcagctt cggcgcacgc tggaaagacg ggaggtctc ttcagtaaat 27060
actgcgcgct gactcttaag gactagtctt gcgccccttc tcaaatttaa gcgcgaaaac 27120
tacgtcatct ccagcgcca caccgcgcgc cagacctgt cgtcagcgcc attatgagca 27180
aggaaattcc cagccctac atgtggagtt accagccaca aatgggactt gcggctggag 27240
ctgcccaaga ctactcaacc cgaataaact acatgagcgc gggaccccac atgatatccc 27300
gggtcaacgg aatccgcgc caccgaaacc gaattctctt ggaacaggcg gctattacca 27360
ccacacctcg taataacctt aatccccgta gttggccgc tggccctggg taccaggaaa 27420
gtcccgctcc caccactgtg gtacttccca gagacgccc ggccgaagtt cagatgacta 27480
actcaggggc gcagcttgcg ggcggttct gtcacaggg gcggtcgccc gggcagggta 27540
taactcacct gacaatcaga gggcgaggt ttcagctcaa cgacgagtcg gtgagctcct 27600
cgcttggctc cgtcccgac gggacatttc agatcgcgcg cgcggccgt ccttcattca 27660
cgctcgtca ggaatccta actctgcaga cctcgtctc tgagccgcgc tctggaggca 27720
ttggaactct gcaatttatt gaggagtttg tgccatcggt ctactttaac cccttctcgg 27780
gacctcccg ccactatccg gatcaattta ttcttaact tgacgcggta aaggactcgg 27840
cggacggcta cgactgataa ttaagtggag aggcagagca actgcgcctg aaacacctgg 27900
tccactgtcg ccgccacaag tgctttgccc gcgactccgg tgagttttgc tactttgaat 27960
tgcccagga tcatatcgag gatctttgt gccatctctg tgctgagtat aataaataca 28020
gaaattaaaa tatactggg ctcctatcgc catcctgtaa acgccaccgt cttcaccgcg 28080
ccaagcaaac caaggcgaa cttacctgg agtgagtcta cgagagaacc tctccgagct cagctactcc 28200
aacagtttca acccagacgg agtgagctca cgtgagaaac cccttaatta aaagtcaggc 28260
atcagaaaaa acaccacct ccttacctgc cggaacgta cgcgatttg ttccagtcca 28320
ttctggatg tcagcatctg actttggcca cagagatgac caacacaacc aacgcggccg ccgctaccgg 28380
actacagcga cccaccctaa cagagatgac ccttgccctt gtcaataact gggataactt 28440
acttacatct accacaaata caccccaagt tctgtcctt cttattatta tgtggctcat 28500
gggcatgttg tggttctcca tagcgcttat tctgttatgc cttattatta tgtggctcat 28560
ctgctgccta aagcgcaaac gcgcccagc acccatctat agtcccatca ttgtgctaca 28620
cccaaacaat gatggaatc atagattgga cgactgaaa cacatgttct tttctcttac 28680
agtatgatta aatgagatta attaaggaat ttctgtccag tttattcagc agcactcct 28740
tgccctctc ccagctctg tattgcagct tcctcctggc tgcaaacctt ctccacaatc

```

taaattggaat	gtcagtttcc	tccgtttcct	gtccatccgc	acccactatc	ttcatgttgt	28800
tgcaatgaa	gcgcgcaaga	ccgtctgaag	ataccttcaa	ccccgtgtat	ccatatgaca	28860
cggaaccgg	tcctccaact	gtgccttttc	ttactcctcc	ctttgtatcc	cccaatgggt	28920
ttcaagagag	tcctccctggg	gtactctctt	tgcgctatc	cgaacctcta	gttacctcca	28980
atggcatgct	tgcgctcaaa	atgggcaacg	gcctctctct	ggacgaggcc	ggcaacctta	29040
cctcccaaaa	tgtaaccact	gtgagccac	ctctcaaaaa	aaccaagtca	aacataaacc	29100
tggaatatc	tgacccctc	acagttacct	cagaagccct	aactgtggct	gccgccgcac	29160
ctctaattgt	cgcgggcaac	acactcacca	tgcaatcaca	ggccccgcta	accgtgcacg	29220
actccaaact	tagcattgcc	acccaaggac	ccctcacagt	gtcagaagga	aagctagccc	29280
tgcaaacatc	aggccccctc	accaccaccg	atagcagtac	ccttactatc	actgcctcac	29340
cccctctaac	tactgccact	ggtagcttgg	gcattgactt	gaaagagccc	atttatacac	29400
aaaatggaaa	actaggacta	aagtacgggg	ctcctttgca	tgtaacagac	gacctaaca	29460
ctttgaccgt	agcaactggg	ccaggtgtga	ctattaataa	tacttccttg	caaactaaag	29520
ttactggagc	cttgggtttt	gattcacaa	gcaatatgca	acttaatgta	gcaggaggac	29580
taaggattga	ttctcaaaa	agacgcctta	tacttgatgt	tagttatccg	tttgatgctc	29640
aaaaccaact	aaatctaaga	ctaggacagg	gccctctttt	tataaactca	gccacaact	29700
tggaatattaa	ctacaacaaa	ggcctttact	tgttttacagc	ttcaaaacaat	tccaaaaagc	29760
ttgaggttaa	cctaagcact	gccaaagggt	tgatgtttga	cgctacagcc	atagccatta	29820
atgcaggaga	tggtgttgaa	tttgggttcac	ctaatgcacc	aaacacaaat	cccctcaaaa	29880
caaaaattgg	ccatggccta	gaatttgatt	caaacaaggc	tatggttcct	aaactaggaa	29940
ctggccttag	ttttgacagc	acaggtgcc	ttacagtagg	aaacaaaaat	aatgataagc	30000
taactttgtg	gaccacacca	gtcccatctc	ctaactgtag	actaaatgca	gagaaagatg	30060
ctaaactcac	tttgggtctta	acaaaatgtg	gcagtcaa	acttgctaca	gtttcagttt	30120
tggtgtttaa	aggcagtttg	gtctcaatat	ctggaacagt	tcaaagtgtc	catcttatta	30180
taagatttga	cgaaaatgga	gtgctactaa	acaattcctt	cctggaccca	gaatattgga	30240
acttttagaaa	tgagatctt	actgaaggca	cagcctatac	aaacgctgtt	ggattttatgc	30300
ctaactatc	agcttatcca	aaatctcacg	gtaaaactgc	caaaagtaac	attgtcagtc	30360
aagtttactt	aaacggagac	aaaactaaac	ctgtaacact	aaccattaca	ctaaacggt	30420
cacaggaaac	aggagacaca	actccaagt	catactctat	gtcattttca	tggtactggt	30480
ctggccacaa	ctacattaat	gaaatatttg	ccacatctc	ttacactttt	tcatacattg	30540
cccaagaata	aagaatcggt	tgtgttatgt	ttcaacgtgt	ttatttttca	attgcagaaa	30600
atttcaagtc	attttttcatt	cagtagtata	gccccaccac	cacatagctt	atacatgaca	30660
ccgtacctta	atcaaaactca	cagaacccta	gtattcaacc	tgccacctcc	ctcccaacac	30720
acagagtaca	cagtcccttc	tcccggctg	gccttaaaaa	gcatcatatc	atgggtaaca	30780
gacatatctt	taggtgttat	attccacacg	gtttcctgtc	gagccaaacg	ctcatcagtg	30840
atattaataa	actccccggg	cagctcactt	aagttcatgt	cgctgtccag	ctgctgagcc	30900
acaggctgct	gtccaacttg	cggttgctta	acgggcgggc	aaggagaagt	ccacgcctac	30960
atgggggtag	agtcataatc	gtgcatcagg	ataggcggt	ggtgctgcag	cagcgcgca	31020
ataaactgct	gccgcgcgcg	ctccgtcctg	caggaataca	acatggcagt	ggtctcctca	31080
gcgatgattc	gcaccgcgcg	cagcataagg	cgcttgtcc	tccgggcaca	gcagcgcacc	31140
ctgatctcac	ttaaatcagc	acagtaactg	cagcacagca	ccacaatatt	gttcaaaatc	31200
ccacagtga	aggcgtgta	tccaaagctc	atggcgggga	ccacagaacc	cagtgggcca	31260
tcataccaca	agcgcaggta	gattaagtgg	cgaccctca	taaacacgct	ggacataaac	31320
attacctctt	ttggcatggt	gtaattcacc	acctcccggt	accatataaa	cctctgatta	31380
aacatggcgc	catccaccac	catcctaacc	cagctggcca	aaacctgccc	gccggctata	31440
cactgcaggg	aaccgggact	ggaacaatga	cagtggagag	cccaggactc	gtaaccatgg	31500
atcatcatgc	tcgtcatgat	atcaatgttg	gcacaacaca	ggcacacgtg	catacacttc	31560
ctcaggatta	caagctctc	ccgcgttaga	accatatccc	agggaacaac	ccattcctga	31620
atcagcgtaa	atcccacact	gcagggaaga	cctcgacgt	aactcacgtt	gtgcattgtc	31680
aaagtgttac	attcgggcag	cagcggatga	tcctccagta	tggtagcgcg	ggtttctgtc	31740
tcaaaaggag	gtagacgatc	cctactgtac	ggagtgcgcc	gagacaaccg	agatcgtgtt	31800
ggtcgtagt	tcattgcaaa	tggaacgcgc	gacgtagtca	tatttctga	agcaaaaacca	31860
ggtgcgggcg	tgacaaaacag	atctgcgtct	ccggtctcgc	cgcttagatc	gctctgtgta	31920
gtagttgtag	tatatccact	ctctcaaagc	atccaggcgc	cccctggctt	cggttcttat	31980
gtaaactcct	tcattgcgcg	ctgccctgat	aacatccacc	accgcagaat	aagccacacc	32040
cagccaacct	acacattcgt	tctgcgagtc	acacacggga	ggagcgggaa	gagctggaag	32100
aacctgtttt	ttttttttat	tccaaaagat	tatccaaaac	ctcaaaatga	agatctatta	32160
agtgaacgcg	ctccccctcg	gtggcggtgt	caaactctac	agccaaagaa	cagataatgg	32220
catttgtaag	atgttgcaaa	atggcttcca	aaaggcaaac	ggccctcacg	tccaagtggg	32280
cgtaaaggct	aaacccttca	gggtgaatct	cctctataaa	cattccagca	ccttcaacca	32340
tgcccaata	attctcatct	cgccaccttc	tcaatatatc	tctaagcaaa	tcccgaatat	32400
taagtccggc	cattgtaaaa	atctgctcca	gagcgccctc	caccttcagc	ctcaagcagc	32460
gaatcatgat	tgcaaaaatt	caggcttctc	acagacctgt	ataagattca	aaagcgggaa	32520
attaacaaaa	ataccgcgat	cccgtaggtc	ccttcgcagg	gccagctgaa	cataatcgtg	32580
caggtctgca	cggaccagcg	cggccacttc	cccgcaggga	accttgacaa	aagaaccac	32640
actgattatg	acacgcatac	tcggagctat	gctaaccagc	gtagcccgga	tgtaagcttt	32700

```

gttgcatggg cggcgatata aaatgcaagg tgetgctcaa aaaatcaggc aaagcctcgc 32760
gcaaaaaaga aagcacatcg tagtcatgct catgcagata aaggcaggta agctccggaa 32820
ccaccacaga aaaagacacc atttttctct caaacatgtc tgcgggtttc tgcataaaca 32880
caaaataaaa taacaaaaaa acattttaaac attagaagcc tgtcttacaa caggaaaaac 32940
aacccttata agcataagac ggactacggc catgccggcg tgaccgtaaa aaaactggtc 33000
accgtgatta aaaagcacca ccgacagctc ctccggtcatg tccggagtca taatgtaaga 33060
ctcggtaaac acatcagggt gattcatcgg tcagtgtctaa aaagcgaccg aaatagcccg 33120
ggggaataca tacccgagg cgtagagaca acattacagc ccccatagga ggtataacaa 33180
aattaatagg agagaaaaac acataaacac ctgaaaaacc ctccctgccta ggcaaaatag 33240
caccctcccg ctccagaaca acatacagcg ctccacagcg gcagcctaac agtcagcctt 33300
accagtaaaa aagaaaacct attaaaaaaa caccactcga cacggcacca gctcaatcag 33360
tcacagtgtg aaaaaggggc aagtgcagag cgagtatata taggactaaa aaatgacgta 33420
acgggttaag tccacaaaaa acaccagaa aaccgcacgc gaacctacgc ccagaaacga 33480
aagccaaaaa acccacaact tcctcaaatc gtcacttccg ttttccacg ttacgttaact 33540
tcccatttta agaaaactac aattcccaac acatacaagt tactccgcc taaaacctac 33600
gtcaccgcgc cegttccac gcccgcgcc acgtcacaaa ctccaccccc tcattatcat 33660
attggcttca atccaaaata aggtatatta ttgatgatg 33699

```

&lt;210&gt; 4

&lt;211&gt; 34448

&lt;212&gt; DNA

&lt;213&gt; Adenovirus subgroup C

&lt;400&gt; 4

```

catcatcaat aatatacctt attttgatt gaagccaata tgataatgag ggggtggagt 60
ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagtagtgtg gcggaagtgt 120
gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgtttttg 180
gtgtgcgcgg gtgtacacag gaagtgcaca ttttcgcgcg gttttaggcg gatgtttag 240
taaatttggg cgtaaccgag taagatttgg ccattttcgc gggaaaactg aataagagga 300
agtgaatctt gaataatttt gtgttactca tagcgcgtaa tatttgtcta gggccgcggg 360
gactttgacc gtttacgtgg agactcgccc aggtgttttt ctccaggtgt ttccgcgttc 420
cgggtcaaaag ttggcgtttt attattatag tcagctgacg tgtagtgtat ttatacccg 480
tgagtctctc aagaggccac tcttgagtgc cagcgagtag agttttctcc tccgagccg 540
tccgacacgg ggactgaaaa tgagacatat tatctgccac ggaggtgtta ttaccgaaga 600
aatggccgac agtcttttgg accagctgat cgaagaggta ctggctgata atcttccacc 660
tcctagccat tttgaaccac ctacccttca cgaactgtat gatttagacg tgacggcccc 720
cgaagatccc aacgaggagg cgttttcgca gatttttccc gactctgtaa tgttggcgt 780
gcaggaaggg attgacttac tcacttttcc gccggcgccc ggttctccgg agccgcctca 840
cctttccggc cagcccgagc agccggagca gagagccttg ggtccggttt ctatgccaaa 900
ccttgtagcg gaggtgatcg atcttacctg ccacgaggct ggctttccac ccagtgacga 960
cgaggatgaa gagggtgagg agtttgtgtt agattatgtg gagcaccctg ggcacgggtg 1020
caggtcttgt cattatcacc ggaggaatac gggggaccca gatattatgt gttcgctttg 1080
ctatatgagg acctgtggca tgtttgtcta cagtaagtga aaattatggg cagtgggtga 1140
tagagtgtgt ggtttgtgtt ggtaattttt tttttaattt ttacagtttt gtggtttaaa 1200
gaattttgta ttgtgatttt tttaaaaggt cctgtgtctg aacctgagcc tgagcccgag 1260
ccagaaccgg agcctgcaag acctaccgac cgtcctaaaa tggcgccctg taccctgaga 1320
cgcccgacat cacctgtgtc tagagaatgc aatagtagta cggatagctg tgactccggt 1380
ccttctaaca cactcctga gatacaccg gtgtcccg tgtgccccat taaaccagtt 1440
gccgtgagag ttggtgggag tgcacaggct gtggaatgta tcgaggactt gcttaacgag 1500
cctgggcaac ctttggactt gagctgtaaa cgccccaggc cataagggtt aaacctgtga 1560
ttgcgtgtgt ggttaacgcc tttgtttgct gaatgagttg atgtaagttt aataaagggt 1620
gagataatgt ttaacttgca tggcgtgtta aatggggcgg ggcttaagg gtatataatg 1680
cgccgtgggc taatcttggg tacatctgac ctcatggagg cttgggagtg tttggaagat 1740
ttttctgctg tgcgtaactt gctggaacag agctctaaca gtacctctg gttttggagg 1800
ttttctgtgg gctcatccca ggcaagttt gtctgcagaa ttaaggagga ttacaagtg 1860
gaatttgaag agcttttgaa atcctgtggg gagctgtttg attccttgaa tctgggtcac 1920
caggcgcttt tccaagagaa ggtcatcaag actttggatt tttccacacc ggggcgcgct 1980
gcggctgctg ttgctttttt gaggtttata aaggataaat ggagcgaaga aacctatctg 2040
agcggggggg acctgctgga ttttctggcc atgcatctgt ggagagcggg tgtgagacac 2100
aagaatcgcc tgctactgtt gtcttccgct cggccggcga taataccgac ggaggagcag 2160
cagcagcagc aggaggaagc caggcgggcg cggcaggagc agagcccatg gaaccgaga 2220
gccggccttg accctcgga atgaatgttg tacagggtgg tgaactgtat ccagaactga 2280
gacgcatttt gacaattaca gaggatgggc aggggctaaa gggggtaaaag agggagcggg 2340
gggcttgtga ggctacagag gaggctagga atctagcttt tagcttaatg accagacacc 2400
gtcctgagtg tattactttt caacagatca aggataattg cgctaagtag cttgatctgc 2460
tggcgagaaa gtattccata gagcagctga ccacttactg gctgcagcca ggggatgatt 2520

```

ttgaggaggc	tattagggta	tatgcaaagg	tggcacttag	gccagattgc	aagtacaaga	2580
tcagcaaact	tgtaaatatc	aggaattgtt	gctacatttc	tgggaacggg	gccgaggtgg	2640
agatagatac	ggaggatagg	gtggccttta	gatgtagcat	gataaatatg	tggccggggg	2700
tgcttggcat	ggacgggggtg	gttattatga	atgtaagggt	tactggcccc	aatttttagcg	2760
gtacggtttt	cctggccaat	accaacctta	tcctacacgg	tgtaaagcttc	tatgggttta	2820
acaatacctg	tgtggaagcc	tggaccgatg	taagggttcg	gggctgtgcc	ttttactgct	2880
gctggaaggg	ggtgggtgtg	cgccccaaaa	gcaggggcttc	aattaagaaa	tgccctctttg	2940
aaaggtgtac	cttgggtatc	ctgtctgagg	gtaactccag	ggtgcgccac	aatgtggcct	3000
ccgactgtgg	ttgcttcattg	ctagtgaaaa	gcgtggctgt	gattaagcat	aacatgggtat	3060
gtggcaactg	cgaggacagg	gcctctcaga	tgtcgacctg	ctcggacggc	aactgtcacc	3120
tgctgaagac	cattcacgta	gccagccact	ctcgcaaggc	ctggccagtg	tttgagcata	3180
acatactgac	ccgctgttcc	ttgcattttg	gtaacaggag	gggggtgttc	ctaccttacc	3240
aatgcaattt	gagtcacact	aagatattgc	ttgagcccga	gagcatgtcc	aaggtgaacc	3300
tgaacggggt	gtttgacatg	accatgaaga	tctggaagg	gctgaggtag	gatgagaccc	3360
gcaccaggtg	cagaccctgc	gagtgtggcg	gtaaacaata	taggaaccag	cctgtgatgc	3420
tggatgtgac	cgaggagctg	aggcccgatc	acttgggtgc	ggcctgcacc	cgcgctgagt	3480
ttggctctag	cgatgaagat	acagatttag	gtactgaaat	gtgtgggcgt	ggcctaaggg	3540
tgggaaagaa	tatataaggt	gggggtctta	tgtagttttg	tatctgtttt	gcagcagccg	3600
ccgcccgcct	gagcaccaac	tcgtttgatg	gaagcattgt	gagctcatat	ttgacaacgc	3660
gcatgcccc	atgggcccgg	gtgcgtcaga	atgtgatggg	ctccagcatt	gatggtcgcc	3720
ccgtcctgcc	cgcaaactct	actaccttga	cctacgagac	cgtgtctgga	acgcgcttgg	3780
agactgcagc	ctccgcccgc	gcttcagccg	ctgcagccac	cgcccgcggg	attgtgactg	3840
actttgtctt	cctgagcccg	cttgcaagca	gtgcagcttc	ccgttcatcc	gcccgcgatg	3900
acaagtgtgg	ggctcttttg	gcacaattgg	attctttgac	ccgggaactt	aatgtcgttt	3960
ctcagcagct	gttgatctg	cgccagcagg	tttctgcctt	gaaggcttcc	tccccctcca	4020
atgcggttta	aaacataaat	aaaaaaccag	actctgtttg	gatttggtatc	aagcaagtgt	4080
cttgctgtct	ttattttagg	gtttttgcgcg	cgcggtaggc	ccgggaccag	cggtctcggt	4140
cgttgagggt	cctgtgtatt	ttttccagga	cgtggttaaag	gtgactctgg	atgttcagat	4200
acatgggcct	aagcccgctc	ctgggggtgga	ctgagcacca	ctgcagagct	tcagtctgcg	4260
gggtggtgtt	gtagatgac	cagtcgtagc	aggagcgctg	ggcgtggtgc	ctaaaaatgt	4320
ctttcagtag	caagctgatt	gccaggggca	ggcccttggt	gtaagtgttt	acaaagcggt	4380
taagctggga	tgggtgcata	cgtggggata	tgagatgcat	cttggtactgt	attttttaggt	4440
tggctatggt	cccagccata	tcctcccggg	gattcatggt	gtgcagaacc	accagcacag	4500
tgtatccgct	gcacttggga	aattttgtcat	gtagcttaga	aggaaatgcg	tggaaagact	4560
tggagacgcc	cttgtgacct	ccaagatttt	ccatgcattc	gtccataatg	atggcaatgg	4620
gcccacgggc	ggcgccctgg	gcgaagatat	ttctgggatc	actaacgtca	tagttgtgtt	4680
ccaggatgag	atcgtcatag	gccattttta	caaagcgcg	gcggagggtg	ccagactgcg	4740
gtataatggt	tccatccggc	ccaggggcgt	agttaccctc	acagatttgc	atttcccacg	4800
cttttagttc	atcatgtcta	cctgcggggc	cctgcggggc	gatgaagaaa	acggtttccg	4860
gggtagggga	gatcagctgg	gaagaaagca	ggttcctgag	cagctgcgac	ttaccgcagc	4920
cggtgggccc	gtaaatcaca	cctattaccg	ggtgcaactg	gtagttaaga	gagctgcagc	4980
tgccgtcatc	cctgagcagg	ggggccactt	cgtaaagcat	gtccctgact	cgcattgttt	5040
ccctgaccaa	atccgcca	aggccgcg	cgccagcgga	tagcagttct	tgcaaggaa	5100
caaagttttt	caacggtttg	agaccgtccg	ccgtaggcat	gcttttgagc	gtttgaccaa	5160
gcagttccag	gcgggtccac	agctcggtca	cctgctctac	ggcatctcga	tccagcatat	5220
ctcctcggtt	cgcggtttgg	ggcggttttc	gctgtacggc	agtagtcggt	gctcgtccag	5280
acgggccagg	gtcatgtctt	tccacggggc	cagggtcctc	gtcagcgtag	tctgggtcac	5340
ggtgaaaggg	tgcgtcccg	gctgcgcgct	ggccagggtg	cgcttgaggc	tggctcgtct	5400
ggtgctgaa	cgctgccggt	cttcgccctg	cgcgtcggcc	aggtagcatt	tgaccatggt	5460
gtcatagtcc	agccccctcc	cgcggtggcc	cttgccgcgc	agcttgccct	tggaggaggc	5520
gccgcacgag	gggcagtgca	gactttttag	ggcgtagagc	ttgggcgcga	gaaataccga	5580
ttccggggag	taggcattccg	cgccgcaggc	cccgcagacg	gtctcgcatt	ccacgagcca	5640
ggtgagctct	ggccggttcg	ggtcaaaaa	caggtttccc	ccatgctttt	tgatgcgttt	5700
cttacctctg	gtttccatga	gccggtgtcc	acgctcgggtg	acgaaaaggc	tgtccgtgtc	5760
cccgatatata	gacttgagag	gcctgtcctc	gagcgggtgt	ccgcggtcct	cctcgtatag	5820
aaactcggac	cactctgaga	caaaggctcg	cgctccaggcc	agcacgaagg	aggctaagt	5880
ggaggggtag	cggtcggtgt	ccactagggg	gtccactcgc	tccagggtgt	gaagacacat	5940
tgcgccctct	tcggcatcaa	ggaagggtgat	tgtttttag	gtgtaggcca	cgtgaccggg	6000
tgttcctgaa	ggggggctat	aaaagggggt	gggggcgcgt	tcgtcctcac	tctcttccgc	6060
atcgctgtct	gcgagggcc	gctgttgggg	tgagtactcc	ctctgaaaag	cgggcatgac	6120
ttctgcgcta	agattgtcag	tttccaaaaa	cgaggaggat	ttgatattca	cctggcccgc	6180
ggtgatgcct	ttaggggtgg	ccgcattccat	ctggtcagaa	aagacaatct	ttttgtgtgc	6240
aagcttgggt	gcacaacgac	cgtagagggc	gttgacagc	aacttggcga	tggagcgag	6300
ggtttggttt	ttgtcgcgat	cggcgcgctc	cttgccgcgc	atgttttagct	gcacgtattc	6360
gcgcgcaacg	caccgccatt	cggaagagac	ggtgtgcgc	tcgtcgggca	ccaggtgcac	6420
gcgccaaccg	cggttgtgca	gggtgacaag	gtcaacgctg	gtggctacct	ctccgcgtag	6480

gcgctcgttg gtccagcaga ggccggccgccc cttgcgcgag cagaatggcg gtaggggggtc 6540  
 tagctgcgtc tcgtccgggg ggtctgcgtc cacggtaaag accccgggca gcaggcgcgc 6600  
 gtcgaagtag tctatcttgc atccttgcaa gtctagcgcc tgctgccatg cgcggggcgc 6660  
 aagcgcgcgc tcgtatgggt tgagtggggg accccatggc atgggggtggg tgagcgcgga 6720  
 gggtacatg ccgcaaagt cgtaaacgta gaggggctct ctgagtattc caagatatgt 6780  
 agggtagcat cttccaccgc ggtatgctggc gcgcacgtaa tcgtatagtt cgtgcgaggg 6840  
 agcaggaggg tcgggaccga ggttgctacg ggccgggctgc tctgctcgga agactatctg 6900  
 cctgaagatg gcatgtgagt tggatgatat ggttgacgc tggaaagcgt tgaagctggc 6960  
 gtctgtgaga cctaccgcgt cagcacgaa ggaggcgtag gaggcgcga gcttggtgac 7020  
 cagctcggcg gtgacctgca cgtctagggc gcagtatgcc agggtttctt tgatgatgtc 7080  
 atacttatcc tgtccctttt tttccacag ctgcgggttg aggacaaact cttcgcggtc 7140  
 tttccagtac gattggatcg gaaacccgtc ggctccgaa cggtaagagc ctgacatgta 7200  
 gaactggttg acggcctggg aggcgcgagca tcccttttct acgggtagcg cgtatgcctg 7260  
 cgcggccttc cggagcgagg tgtgggtgag cgcaaagggt tccctgacca tgactttgag 7320  
 gtactggtat ttgaagtcag tgtcgtcgca tccgcctgc tcccagagca aaaagtcctg 7380  
 gcgctttttg gaacgcggat ttggcagggc gaagggtgaca tcggtgaaga gtatctttcc 7440  
 cgcgcgaggc ataaagttgc gtgtgatgcg gaagggtccc ggcacctcgg aacgggtgtt 7500  
 aattacctgg gcggcgagca cgatctcgtc aaagccggtt atgttgtggc ccacaatgta 7560  
 aagttccaag aagcgcggga tgcccttgat ggaaggcaat tttttaagtt cctcgtaggt 7620  
 gagctcttca ggggagctga gcccggtgct tgaaggggcc cagtctgcaa gatgagggtt 7680  
 ggaagcgacg aatgagctcc acagggtcac ggccattagc atttgcaggt ggtcgcgaaa 7740  
 ggtcctaaac ttggcgacct tggccatttt ttctgggggt atgcagtaga aggtaagcgg 7800  
 gtctgtgtcc cagcgggtccc atccaagggt cgcggttagg tctcgcgcgg cagtactag 7860  
 aggtcatctt ccgccgaact tcatgaccag catgaagggc acgagctgct tcccaaaggc 7920  
 ccccatccaa gtataggtct ctacatcgta ggtgacaaag agacgctcgg tgcgaggatg 7980  
 cgagccgatc gggaagaact ggatctccc ccaccaattg gaggagtggt tattgatgtg 8040  
 gtgaaagtag aagtccctgc gacggggccga acactcgtgc tggcttttgt aaaaacgtgc 8100  
 gcagtagctg cagcgggtgca cgggctgtac atcctgcacg aggttgacct gacgaccgcg 8160  
 cacaaggaag cagagtggga atttgagccc ctgcctggc ggggttggtt ggtggtcttc 8220  
 tacttcggct gcttgtcctt gaccgtctgg ctgctcgagg ggagttacgg tggatcgga 8280  
 caccacgccc cgcgagccca aagtccagat gtccgcgcgc ggcggtcgga gcttgatgac 8340  
 aacatcgcc agatgggagc tgtccatggt ctggagctcc cgcggcgta ggtcagggc 8400  
 gagctcctgc aggtttacct cgcatagacg ggtcaggggc cgggctagat ccaggtgata 8460  
 cctaatttcc aggggctggg tgggtggcgg gtctgatggc tgcaagaggc cgcacccccg 8520  
 cggcgcgact acggtaccgc gcggcgggcg gtgggcccgc ggggtgtcct tggatgatgc 8580  
 atctaaaagc ggtgacgcgg gcgagcccc ggaggtaggg ggggtcccg acccgccggg 8640  
 agagggggca ggggcacgct ggcgcgcgc gcgggcagga gctggtgctg cgcgcgtagg 8700  
 ttgctggcga acgcgacgac gcggcggttg atctcctgaa tctgggcct ctgctgaa 8760  
 acgacggggc cggtagctt gagcctgaaa gagagtctga cagaatcaat ttcggtgtc 8820  
 ttgacggcgg cctggcgcaa aatctcctgc acgtctcctg agttgtctt ataggcgatc 8880  
 tcggccatga actgctcgat ctcttctctc tggagatctc cgctcggc togtccacg 8940  
 gtggcggcga ggtcgttgg aatgcgggccc atgagctgcg agaggcggt gaggcctccc 9000  
 tcggtccaga cgcggctgta gaccacgccc ccttcggcat cgcgggcgc catgaccac 9060  
 tgccgagat tgagctccac gtgcggggcg aagacggcgt agtttcgcag gcgctgaa 9120  
 aggtagttga ggggtggtgg ggtgtgttct gccacgaaga agtacataac ccagcgtcgc 9180  
 aacgtggatt cgttgatata ccccaaggcc tcaaggcgct ccatggcctc gtagaagtc 9240  
 acggcgaagt tgaaaaactg ggagttgcgc gccgacacgg ttaactctc ctccagaaga 9300  
 cggatgagct cggcgacagt gtgcgcgacc tcgcgctcaa aggtacagg ggcctcttct 9360  
 tcttcttcaa tctcctcttc cataagggcc tccccttctt cttcttctg cgcggtggg 9420  
 ggagggggga cagggcgcg acgacggcgc accgggaggg ggtcgacaaa gcgctcgatc 9480  
 atctccccgc ggcgacggcg catggtctcg gtgacggcgc ggccttctc gcggggcg 9540  
 agttggaaga cgcgcggcgt catgtcccgc ttatgggttg gcggggggct gccatgcggc 9600  
 agggatacgg cgctaaccgt gcatctcaac aattgttgtg taggtactcc gcccgcgagg 9660  
 gacctgagc agtccgcac gaccggatcg gaaaacctct cgagaaaggc gtctaaccag 9720  
 tcacagtcgc aaggtaggct gagcaccgtg gcggggcgca gcgggcggc gtcggggtt 9780  
 tttctggcgg aggtgtgct gatgatgtaa ttaaagtag cggcttgag acggcggtat 9840  
 gtcgacagaa gcaccatgtc cttgggtccg gcctgtgaa tgcgcaggcg gtcggccatg 9900  
 ccccaggctt cgttttgaca tcggcgagg tcttgtagt agtcttgcag gagccttct 9960  
 accggcactt cttcttctcc tctcttctgt cctgcactct ttgcactat cgtgcggcg 10020  
 gcggcgagg tggccgtag gtggcgccct ctctctccca tgcgtgtgac cccgaagccc 10080  
 ctcacggtc gaagcagggc taggtcggcg acaacgcgt cggctaatat ggcctgctgc 10140  
 acctgcgtga gggtagact gaagtcaccc atgtccaaa agcgggtggt tgcgcccgtg 10200  
 ttgatggtt aagtgcagtt ggccataacg gaccagttaa cggctctggt acccggtcgc 10260  
 gagagctcgg tgtacctgag acgcgagtaa gccctcgagt caaatacgt gtcgttgcaa 10320  
 gtccgcacca ggtactggta tcccacaaa aagtgcggcg gcggctggcg gtagaggggc 10380  
 cagcgtaggg tggccggggc tccggggggc agatcttcca acataaggcg atgatattcc 10440



tagatgtacc	tggacatcca	ggtgatgccg	gcggcggtgg	tggaggcgcg	cggaaagtgc	10500
cggacgcggt	tccagatggt	gcgcagcggc	aaaaagtgc	ccatggtcgg	gacgctctgg	10560
ccggtcaggc	gcgcgcaatc	ggtgacgctc	tagaccgtgc	aaaaggagag	cctgtaagcg	10620
ggcactcttc	cgtggtctgg	tggataaatt	cgcaagggtg	tcattggcga	cgaccgggtg	10680
tcgagccccg	tatccggccg	tccgcccgtg	tccatgcggt	taccgcccgc	gtgtcgaacc	10740
caggtgtgcg	acgtcagaca	acgggggagt	gctccttttg	gcttccttcc	aggcgcgccg	10800
gctgtgcgc	tagctttttt	ggccactggc	cgcgcgagc	gtaagcggtt	aggctggaaa	10860
gcgaaagcat	taagtggctc	gctccctgta	gccggagggt	tattttccaa	gggttgagtc	10920
gcgggacccc	cgttccgagt	ctcggaccgg	ccggactgcg	gcgaacgggg	gtttgcctcc	10980
ccgtcatgca	agaccccgct	tgcaaatccc	tccggaaaca	gggacgagcc	ccttttttgc	11040
ttttcccaga	tgcattccgt	gctgcggcag	atgcgcccc	ctcctcagca	gcggcaagag	11100
caagagcagc	ggcagacatg	cagggcaccc	tccccctctc	ctaccgcgtc	aggaggggcg	11160
acatcccgcg	ttgacgcggc	agcagatggt	gattacgaac	ccccgcggcg	ccgggcccgg	11220
cactacctgg	acttggagga	gggcgagggc	ctggcgcggc	taggagcgcc	ctctcctgag	11280
cggtagccaa	gggtgcagct	gaagcgtgat	acgcgtgagg	cgtacgtgcc	gcggcagaa	11340
ctgtttcgcg	accgcgaggg	agaggagccc	gaggagatgc	gggatcgaaa	gttccacgca	11400
gggcgcgagc	tgcggcatgg	cctgaatcgc	gagcggttgc	tgcgcgagga	ggactttgag	11460
cccgcgcgc	gaaccgggat	tagtcccgcg	cgcgcacacg	tggcgccgcg	cgacctggtg	11520
accgcatacg	agcagacggt	gaaccaggag	attaaactttc	aaaaaagctt	taacaaccac	11580
gtgcgtacgc	ttgtggcgcg	cgaggagggtg	gctataggac	tgatgcattc	gtgggacttt	11640
gtaagcgcg	tggagcaaaa	cccaaatagc	aagccgctca	tggcgagctg	gttctttata	11700
gtgcagcaca	gcagggacaa	cgaggcatte	agggatgcgc	tgctaatacat	agtagagccc	11760
gagggcgctc	ggctgctcga	tttgataaac	atcctgcaga	gcatagtggt	gcaggagcgc	11820
agctttgagc	tggttgacaa	ggtggccgcc	atcaactatt	ccatgcttag	cctgggcgaag	11880
ttttacgccc	gcaagatata	ccatacccct	tacgttccca	tagacaagga	ggtaaagatc	11940
gaggggttct	acatgcgcgt	ggcgctgaag	gtgcctacct	tgagcgacga	cctgggcggt	12000
tatcgcaacg	agcgcatcca	caaggccgtg	agcgtgagcc	ggcggcgcga	gctcagcgac	12060
cgcgagctga	tgcacagcct	gcaaagggcc	ctggctggca	cgggcagcgg	cgatagagag	12120
gccgagtcct	actttgacgc	ggcgctgac	ctgcgctggg	ccccaagccg	acgcgcctg	12180
gaggcagctg	gggcccggacc	tgggctggcg	gtggcacccg	cgcgcgctgg	caacgtcggc	12240
ggcggtggag	aatatgacga	ggacgatgag	tacgagccag	aggacggcga	gtactaagcg	12300
gtgatgtttc	tgatcagatg	atgcaagacg	caacggaccc	ggcggtgcgg	gcggcgctgc	12360
agagccagcg	tcccgccctt	aactccacgg	acgactggcg	ccaggctcatg	gaccgcacga	12420
tgctgctgac	tgcgcgcaat	cctgacgcgt	tccggcagca	gcgcgagggc	aaccggctct	12480
ccgcaattct	ggaagcggtg	gtcccggcgc	gcgcaaaccc	cacgcacgag	aaggtgctgg	12540
cgatcgtaaa	cgcgctggcc	gaaaacaggg	ccatccggcc	cgacgagggc	ggcctggtct	12600
acgacgcgct	gcttcagcgc	gtggctcggt	acaacagcgg	caacgtgcag	accaacctgg	12660
accggctggt	gggggatgtg	cgcgaggccg	tggcgagcgc	tgagcgcgcg	cagcagcagg	12720
gcaacctggg	ctccatggtt	gactaaacg	ccttccctgag	tacacagccc	gccaacgtgc	12780
cgcggggaca	ggaggactac	accaactttg	tgagcgcaat	gcggctaatt	gtgactgaga	12840
caccgcaaa	tgaggtgtac	cagtcctggc	cagactatct	tttccagacc	agtagacaag	12900
gcctgcagat	cgtaaacctg	agccaggctt	tcaaaaactt	gcaggggctg	tgggggggtg	12960
gggctcccac	aggcgaccgc	gcgaccgtgt	ctagcttgc	gacgcccac	tcgcgcctgt	13020
tgctgctgct	aatagcgccc	ttcacggaca	gtggcagcgt	gtcccgggac	acatacctag	13080
gtcacttgct	gacactgtac	cgcgaggcca	taggtcagcg	gcatgtggac	gagcatactt	13140
tccaggagat	tacaagtgtc	agccgcgcgc	tggggcagga	ggacacgggc	agcctggagg	13200
caaccctaaa	ctacctgctg	accaaccggc	ggcagaagat	cccctcgctg	cacagtttaa	13260
acagcgagga	ggagcgcat	ttgcgctacg	tgcagcagag	cgtgagcctt	aacctgatgc	13320
gcgacggggt	aacgcccagc	gtggcgctgg	acatgaccgc	gcgcaacatg	gaaccgggca	13380
tgtatgcctc	aaaccggccg	tttatcaacc	gcctaattga	ctacttgcat	cgcgcgcccg	13440
ccgtgaaccc	cgagtatttc	accaatgcc	tcttgaaccc	gcactggcta	ccgccccctg	13500
gtttctacac	cgggggattc	gaggtgccc	agggtaacga	tggattcttc	tgggacgaca	13560
tagacgacag	cgtgttttcc	ccgcaaccgc	agaccctgct	agagttgcaa	cagcgcgagc	13620
aggcagaggc	ggcgctgcga	aaggaaagct	tccgcaggcc	aagcagcttg	tccgatctag	13680
gcgctgcggc	cccgcggtca	gatgctagta	gcccatttcc	aagcttgata	gggtctctta	13740
ccagcactcg	caccacccgc	ccgcgcctgc	tgggcgagga	ggagtaccta	aacaactcgc	13800
tgctgcagcc	gcagcgcgaa	aaaaacctgc	ctccggcatt	tcccaacaac	gggatagaga	13860
gcctagtggg	caagatgagt	agatggaaga	cgtacgcgca	ggagcacagg	gacgtgccag	13920
gcccgcgccc	gcccaccgct	cgtcaaaggc	acgaccgtca	gcggggctctg	gtgtgggagg	13980
acgatgactc	ggcagacgac	agcagcgtcc	tggatttggtg	agggagtggtc	aaccctgttg	14040
cgcaccttcg	cccaggtctg	gggagaatgt	tttaaaaaaa	aaaaagcatg	atgcaaaaata	14100
aaaaactcac	caaggccatg	gcaccgagcg	ttggttttct	tgtattcccc	ttagtatgcg	14160
gcgcgcggcg	atgtatgagg	aaggtcctcc	tccctcctac	gagagtgtgg	tgagcgcgcg	14220
gccagtggcg	gcggcgctgg	gttctccctt	cgatgctccc	ctggacccgc	cgtttgtgccc	14280
tccgcggtac	ctgcggccta	ccggggggag	aaacagcatc	cgttactctg	agttggcacc	14340
cctattcgac	accaccgctg	tgtacctggt	ggacaacaag	tcaacggatg	tggcatccct	14400

```

gaactaccag aacgaccaca gcaactttct gaccacggtc attcaaaaca atgactacag 14460
ccccggggag gcaagcacac agaccatcaa tcttgacgac cggtcgcaact ggggcggcga 14520
cctgaaaacc atcctgcata ccaacatgcc aaatgtgaac gagttcatgt ttaccaataa 14580
gtttaaggcg cgggtgatgg tgctcgctt gctactaag gacaatcagg tggagctgaa 14640
atacgagtgg gtggagttca cgctgcccga gggcaactac tccgagacca tgaccataga 14700
ccttatgaac aacgcgatcg tggagcacta cttgaaagtg ggcagacaga acgggggttct 14760
ggaaaagcgac atcggggtaa agtttgacac ccgcaacttc agactggggg ttgaccccgt 14820
cactggtctt gtcatgcctg gggatatata aaacgaagcc ttccatccag acatcatttt 14880
gctgccagga tgcgggggtg acttcaccca cagccgctg agcaacttgt tgggcatccg 14940
caagcggaac cccttcagg agggcttag gatcacctac gatgatctgg aggggtgtaa 15000
cattcccga ctgttgatg tggacgcta ccaggcgagc ttgaaagtg acaccgaaca 15060
gggcggggtt ggcgcaggcg gcagcaacag cagtggcagc ggcgcggaag agaactccaa 15120
cgcggcagcc gcggcaatgc agccggtgga ggacatgaac gatcatgcca ttcgcggcga 15180
cacctttgcc acacgggtg aggagaagcg cgctgaggcc gaagcagcgg ccgaagctgc 15240
cgccccgct gcgcaacccg aggtcgagaa gcttcagaag aaaccggtga tcaaaccct 15300
gacagaggac agcaagaaac gcagttacaa cctaataagc aatgacagca ccttcaccca 15360
gtaccgcagc tggtagctt cacaacta cggcgacct cagaccgga tccgctcatg 15420
gaccctgctt tgcactcctg acgtaacct cggctcggag caggtctact ggtcgttgc 15480
agacatgatg caagaccccg tgaccttcg ctccacgcg cagatcagca actttccggt 15540
ggtgggcgcc gagctgttg ccgtgcactc caagagctt tacaacgacc aggcctcta 15600
ctcccaactc atccgccagt ttacctctt gacccacgt ttcaatcgct tcccgagaa 15660
ccagattttt gcgcgcccgc cagccccac catcaccacc gtcagtgaac acgttcttgc 15720
tctcacagat cacgggacgc taccgctgag caacagcctc ggaggagtcc agcagtgac 15780
cattactgac gccagacgcc gcacctgccc ctacgtttac aaggccctg gcatagtctc 15840
gocgcgctc ctatcgagcc gcacttttt agcaagcatg tccatcctta tatcgccag 15900
caataacaca ggctggggcc tgctgttccc aagcaagatg tttggcggg ccaagaagcg 15960
ctccgaccaa caccagtg gcgtgcgcgg gcaactaccg gcgcctggg gcgcgcacaa 16020
acgcggccgc actgggcgca ccaccgtcga tgacgccatc gacgcggtg tggaggagc 16080
gcgcaactac acgcccacgc cgccaccagt gtccacagt gacgcggcca ttcagaccgt 16140
ggtgcgcgga gccggcgct atgctaaat gaagagacgg cggaggcgcg tagcacgtcg 16200
ccaccgcgc cgaccggca ctgccgccca acgcgcggcg cgggccctgc ttaaccgcgc 16260
acgtcgacc ggccgacggg cgccatgag ggcgctcga aggtggccg cgggtattgt 16320
cactgtgcc cccaggtcca ggcgacgagc ggcgcgcga gcagccgcg ccattagtgc 16380
tatgactcag ggtcgaggg gcaacgtgta tttggcgcg gactcgggta gcggcctgcg 16440
cgtgcccggt gcacccgcg ccccgcgcaa ctgattgca agaaaaaact acttagactc 16500
gtactgtgt atgtatccag cggcgcgggc gcgcaacgaa gctatgtcca agcgcaaaat 16560
caaagaagag atgtccagg tcatcgccc ggagatctat ggcccccgga agaaggaaga 16620
gcaggattac aagccccgaa agctaaagcg ggtcaaaaag aaaaagaaag atgatgatga 16680
tgaacttgac gacgaggtg aactgctgca gcctaccgcg cccaggcgac gggtagagt 16740
gaaaggtcga cgcgtaaaac gtgttttgcg acccgccacc accgtagtct ttacgcccgg 16800
tgagcgctcc acccgcacct acaagcgct gtatgatgag gtgtacggcg acgaggacct 16860
gcttgagcag gccaacgagc gcttcgggga gtttgctac ggaagcgggc ataaggacat 16920
gctggcggtt ccgctggagc agggcaaccc aacacctagc ctaaaagcgg ggcctaaagc 16980
gcaggtgctg cccgcgctt caccgtccga agaaaagcgc ggcctaaagc gcgagtctgg 17040
tgacttgcca cccaccgtgc agctgatgt acccaagcgc cagcgactgg aagatgtctt 17100
ggaaaaaat accgtggaac ctgggctgga gcccaggtc cgctgcgggc caatcaagca 17160
ggtggcgccg ggactgggag tgcagaccgt ggacgttcag ataccacta ccagtacac 17220
cagtattgcc accgccacag agggcatgga gacacaaacg tccccggtt cctcagcgg 17280
ggcgatgcc gcggtgcagg cggctcgtgc ggcgcgtcc aagacctta cggaggtgca 17340
aacggaccgg tggatgtttc gcgtttcagc ccccgcgcg ccgcgcggtt cgaggaaagta 17400
cggcgcgcgc agcgcgctac tgcccgaata tgccctacat ccttccattg cgcctacccc 17460
cggtatcgt ggctacacct accgccccag gtcgcccgt ccagcccgt ctggccccga tttccgtgcg 17520
cactggaacc cgccgcgcgc gtcgcccgt ggtgctgcca acagcgcgct accaccccag 17580
cagggtggt cgcaaggag gcaggaccct ggtgctgcca acagcgcgct accaccccag 17640
catcgtttaa aagccggtct ttgtggttct tgcagatatg gccctacct gccgctccg 17700
tttcccggt cgggattcc gaggaagaat gcaccgtag aggggcatg cgggccacgg 17760
cctgacgggc ggcagcgctc gtgcgcacca ccggcgcgcg cgcgctcgc accgtcgcat 17820
gcgcggcggt atcctgcccc tccttattcc actgatcgcc gcggcgattg gcgcgctgc 17880
cggaattgca tccgtggcct tgcaggcgca gagacactga ttaaaaaaca gttgcatgtg 17940
gaaaaatcaa aataaaaagt ctggactctc acgtcgtctt ggtcctgtaa ctattttgta 18000
gaatggaaga catcaacttt gcgtctctgg ccccgcgaca cggctcgcgc ccgttctagg 18060
gaaactggca agatatcggc accagcaata tgagcgggtg gcgcttcagc tggggctcgc 18120
tgtggagcgg cattaaaaat ttcggttcca ccgttaagaa ctatggcagc aaggcctgga 18180
acagcagcac aggcagatg ctgagggata agttgaaaga gcaaaatttc caacaaaagg 18240
tggtagatgg cctggcctct ggcatagcg ggtggtgga cctggccaac caggcagtcg 18300
aaaataagat taacagtaag cttgatcccc gccctcccgt agaggagcct ccaccggccg 18360

```

```

tggagacagt gtctccagag gggcgtggcg aaaagcgtcc gcgccccgac agggaagaaa 18420
ctctggtgac gcaaataagac gagcctccct cgtacagagga ggcaactaaag caaggcctgc 18480
ccaccacccg tcccatcgcg cccatggcta cggagtgctt gggccagcac acaccgtaa 18540
cgctggacct gcctccccc gccgacaccc agcagaaacc tgtgctgcca gggccgaccg 18600
ccgttggtgt aaccctgctt agccgcgcgt ccctgcgcgg cggccgacgc ggtccgcgat 18660
cgctgcggcc cgtagccagt ggcaactggc aaagcacact gaacagcatc gtgggtctgg 18720
gggtgcaatc cctgaagcgc cgacgatgct tctgaatagc taacgtgtcg tatgtgtgtc 18780
atgtatgcgt ccattgtcgc gccagaggag ctgctgagcc gccgcgcgcg cgctttccaa 18840
gatggctacc ccttcgatga tgccgcagtg gtcttacatg cacatctcgg gccaggacgc 18900
ctcggagtac ctgagccccg ggctggtgca gtttgccgcg gccaccgaga cgtacttcag 18960
cctgaataac aagtttagaa accccacggt ggcgcctacg cagcagtgta ccacagaccg 19020
gtcccagcgt ttgacgtgct ggttcatccc tgtggaccgt gaggatactg cgtactcgtg 19080
caaggcgcgg ttacccttag ctgtgggtga taaccgtgtg ctggacatgg cttccacgta 19140
ctttgacatc cgcgcgctgc tggacagggg ccctactttt aagccctact ctggcactgc 19200
ctacaacgcc ctggctccca aggggtcccc aaatccttgc gaatgggatg aagctgtctac 19260
tgctcttgaa ataaacctag aagaagagga cgtagacaac gaagacgaag tagacgagca 19320
agctgagcag caaaaaactc acgtatttgg gcagggcgct tattctggta taaatattac 19380
aaggagggtt attcaatag gtgtcgaagg tcaaacacct aaatatgccg ataaaacatt 19440
tcaacctgaa cctcaaatag gagaatctca gtggtacgaa actgaaatta atcatgcagc 19500
tgggagagtc cttaaaaaga ctaccccaat gaaacctatg tacggttcat atgcaaaacc 19560
cacaatatga aatggagggc aaggcattct tgtaaagcaa caaatggaa agctagaag 19620
tcaagtggaa atgcaatttt tctcaactac tgaggcgacc gcaggcaatg gtgataactt 19680
gactcgtaaa gtgtatttgt acagtgaaga tgtagatata gaaacccag acactcatat 19740
ttcttacatg cccactatta aggaaggtaa ctacagagaa ctaatggggc aacaattctat 19800
gcccaacagg cctaattaca ttgcttttag ggacaatttt attggtctaa tgtattacaa 19860
cagcacgggt aatatgggtg ttctggcggg ccaagcatcg cagttgaatg ctggtgtaga 19920
tttgcaagac agaaacacag agctttcata ccagcttttg ctgtattcca ttggtgatag 19980
aaccaggtac tttctatgtt ggaatcaggc tgttgacagc tatgatccag atgttagaat 20040
tattgaaat catggaactg aagatgaact tccaaattac tgctttccac tgggaggtgt 20100
gattaatata gagactctta ccaaggtaaa acctaaaaca ggtcaggaaa atggatggga 20160
aaaagatgct acagaatttt cagataaaaa tgaaataaga gttggaaata attttgccat 20220
ggaaatcaat ctaaatgcc aactgtggag aaatttctct tactccaaca tagcgctgta 20280
tttgcccgac aagctaaagt acagtcttcc acctgtaaaa atttctgata acccaaacc 20340
ctacgactac atgaacaagc gagtggtggc tcccgggtta tgggactgct acattaacct 20400
tgagcacgcg tggcccttg actatatgga caacgtcaac ccatttaacc accaccgcaa 20460
tgctggcctg cgctaccgct caatgttgct gggcaatggt cgctatgtgc ccttccacat 20520
ccaggtgcct cagaagtctt ttgccattaa aaactctctt ctccgtccgg gctcatacac 20580
ctacgttggt aacttcagga aggatgttaa catggttctg cagagctccc taggaaatga 20640
cctaagggtt gacggagcca gcattaaagt tgatagcatt tgcccttacg ccaccttctt 20700
ccccatggcc cacaacaccg cctccacgct tgaggccatg cttagaaacg acaccaacga 20760
ccagtccctt aacgactatc tctccgcgcg caacatgctc taccctatac ccgccaacgc 20820
taccacagct cccatatcca tccccctccg caactgggcg gctttccgcg gctgggctt 20880
cacgcgcctt aagactaagg aaaccccatc actgggctcg ggctacgacc cttattacac 20940
ctactctggc tctataacct acctagatgg aaccttttac ctcaaccaca ctttaagaa 21000
ggtggccatt acctttgact cttctgtcag ctggcctggc aatgaccgcc tggctacccc 21060
caacgagttt gaaattaagc gctcagttga cggggagggt tacaacgttg cccagtgtaa 21120
catgaccaa gactggttcc tggtaaaaat gctagctaac tacaacattg gctaccaggg 21180
cttctatata ccagagagct acaaggaccg catgtactcc ttctttagaa acttccagcc 21240
catgagccgt caggtggtgg atgatactaa atacaaggac taccaacagg tgggcaccc 21300
acaccaacac aacaactctg gatttgttgg ctaccttgcc cccaccatgc gcgaaggaca 21360
ggcctacctt gctaacttcc cctatccgct tataggcaag accgcagttg acagcattac 21420
ccagaaaaag tttctttgcg atgcaccct ttggcgcctc ccattctcca gtaactttat 21480
gtccatgggc gcactcacag acctgggcca aaaccttctc tacgccaact ccgcccacgc 21540
gctagacatg acttttgagg tggatcccat ggacgagccc acccttcttt atgttttgtt 21600
tgaagtcttt gacgtggtcc gtgtgcaccg gccgcaccgc ggcgtcatcg aaaccgtgta 21660
cctgcgcacg ccttctctcg ccggcaacgc caaacataa agaagcaagc aacatcaaca 21720
acagctgcgg ccatgggctc cagtgaagc gactgaaaag ccattgtcaa agatcttgg 21780
tgtgggcat attttttggg cacctatgac aagcgcttct caggcttgtt ttctccacac 21840
aagctcgct ggcctatagt caatacggcc ggtcgcgaga ctgggggctg acactggatg 21900
gcctttgcct ggaacccgca ctcaaaaaca tgctacctct ttgagccctt tggcttttct 21960
gaccacgac tcaagcaggt ttaccagttt gagtacaggt cactcctgcg ccgtagcgcc 22020
attgcttctt cccccgacc ctgtataacg ctggaaaagt ccacccaaag cgtacagggg 22080
cccaactcgg ccgctgtgg actattctgc tgcattgttc tccacgcctt tgccaactgg 22140
ccccaaactc ccatggatca caaccccacc atgaacctta ttaccgggtt acccaactcc 22200
atgctcaaca gtccccaggt acagcccacc ctgcgtcgca accaggaaca gctctacagc 22260
ttctggagc gccactcgcc ctacttccgc agccacagtg cgcagattag gagcgccact 22320

```

tctttttgtc acttgaaaaa catgtaaaaa taatgtacta gagacacttt caataaaggc 22380  
 aaatgctttt atttgtacac tctcgggtga ttatttacc ccacccttgc cgtctgcgcc 22440  
 gtttaaaaaat caaaggggtt ctgcgcgcga tcgctatgcg ccactggcag ggacacgttg 22500  
 cgatactggg gtttagtgct ccacttaaac tcaggcacaa ccattccgcg cagctcggtg 22560  
 aagttttcac tccacaggct gcgcaccatc accaacgcgt ttagcaggtc gggcgccgat 22620  
 atcttgaagt cgcagttggg gcctccgccc tgcgcgcgcg agttgcgata cacagggttg 22680  
 cagcactgga acactatcag cgcgggttg tgcacgctgg ccagcacgct cttgtcggag 22740  
 atcagatccg cgtccaggtc ctcccgcttg ctccaggcga acggagtcaa ctttggtagc 22800  
 tgccttccca aaaaggggcg gtgcccaggc tttgagttgc actcgcaccg tagtggcatc 22860  
 aaaagggtgac cgtgcccggg ctgggcgtta ggatacagcg cctgcataaa agccttgatc 22920  
 tgcttaaaag ccacctgagc ctttgcgcct tcagagaaga acatgccgca agacttgccg 22980  
 gaaaactgat tggccggaca ggccgcgtcg tgcacgcagc accttgcgtc ggtgttgagg 23040  
 atctgcacca catttcggcc ccaccgggtt ttcacgatct tggccttgct agactgtcc 23100  
 ttcagcgcgc gctgccggtt ttcgctcgtc acatccattt ctcagcgcga cgcgtgcagc 23160  
 atcataatgc ttccgtgtag acacttaagc tcgcttccga tctcagcgcga cgtgtgcagc 23220  
 cacaacgcgc agcccgtggg ctgctgatgc ttgtaggtea cctctgcaaa cgactgcagg 23280  
 tacgctgca ggaatcgccc catcatcgtc acaaaggctt tgttgcgtgg 23340  
 tgcaaccgcg ggtgctcctc gtccagccag gtcttgcata cggccgcag agcttccact 23400  
 tggtcaggca gtagtttgaa gttcgccttt agatcgttat ccacgtggta cttgtccatc 23460  
 agcgcgcgcg cagcctccat gcccttctcc cagcagaca cgatcggcac actcagcggg 23520  
 ttcacaccgc taatttact ttcgcttcg ctgggctctt cctcttctc ttgcgtccgc 23580  
 ataccacgcg ccactgggtc gtcttcattc agccgcgcga ctgtgcgctt acctcctttg 23640  
 ccatgcttga ttagcaccgg tgggttgctg aaaccaccca tttgtagcgc cacatcttct 23700  
 ctttcttctc cgtgtccac gattacctct ggtgatggcg ggcgctcggg cttgggagaa 23760  
 gggcgttctt ttttcttctt gggcgcaatg gccaaatccg ccgccgaggt cgatggccgc 23820  
 gggctgggtg tgcgcggcac cagcgcgtct tgtgatgagt cttcctcgtc ctccgactcg 23880  
 atacgcgcgc tcacccgctt ttttgggggc gcccggggag gggcgggcga cggggacggg 23940  
 gacgacacgt cctccatggt tgggggacgt cgcgcgcgcg cgcgtccgcg ctcgggggtg 24000  
 gtttcgcgct gctcctcttc ccgactggcc atttcttct cctataggca gaaaaagatc 24060  
 atggagtcag tcgagaagaa ggacagccta accgccccct ctgagttcgc caccaccgcc 24120  
 tccaccgatg ccgccaacgc gcctaccacc ttcgccgtcg aggcaccccc gcttgaggag 24180  
 gaggaagtga ttatcgagca ggaccaggt tttgtaagcg aagacgacga ggaccgctca 24240  
 gtaccaacag aggataaaaa gcaagaccag gacaacgcag aggcaaacga ggaacaagtc 24300  
 gggcgggggg acgaaaggca tggcgactac tagatgtgg gagacgacgt gctgttgaag 24360  
 catctgcagc gccagtgcgc catttatctgc gacgcgttgc aagagcgcag cgatgtgcc 24420  
 ctgcctatag cggatgtcag ccttgcctac gaacgccacc tattctcacc gcgcgtacct 24480  
 cccaaacgcc aagaaaacgg cacatgcgag cccaaccgcg gctcaactt ctaccccgta 24540  
 tttgccgtgc cagaggtgct tgccacctat cacatctttt tccaaaactg caagataccc 24600  
 ctatcctgcc gtgccaacgc cagccgagcg gacaagcagc tggccttgcg gcagggcgct 24660  
 gtcatacctg atatgcctc gctcaacgaa gtgccaaaaa tctttgaggg tcttgagcgc 24720  
 gacgagaagc gcgcgcgcaa cgctctgcaa caggaaaaa gcgaaaatga aagtcactct 24780  
 ggagtgttgg tggaaactga ggggtgacaac gcgcgcctag ccgtactaaa acgcagcatc 24840  
 gaggtcaccc actttgccta cccggcaact aaacctacccc ccaaggtcat gagcacagtc 24900  
 atgagtgagc tgatcgtgcg ccgtgcgcag cccctggaga gggatgcaaa tttgcaagaa 24960  
 caaacagagg agggcctacc cgcagttggc gacgagcagc tagcgcgctg gcttcaaacg 25020  
 cgcgagcctg ccgacttgga ggagcgacgc aaactaatga tggccgcagt gctcgttacc 25080  
 gtggagcttg agtgcattga gcggttcttt ctagaccgg agatgcagcg caagctagag 25140  
 gaaacattgc actacacct tcgacagggc tacgtacgcc aggcctgcaa gatctccaac 25200  
 gtggagctct gcaacctggg ctctacctt ggaattttgc acgaaaaccg ccttgggcaa 25260  
 aacgtgcttc attccacgct caagggcgag gcgcgcgcg actacgtccg cgactgcgtt 25320  
 tacttatttc tatgtacac ctggcagacg gccatggcg acttgagca cctatggacg 25380  
 gagtgaacc tcaaggagct gcagaaactg cttaaagcaaa acttgaagga cctatggacg 25440  
 gccttcaacg agcgtccgt ggccgcgcac ctggcggaca tcattttccc cgaacgcctg 25500  
 cttaaaaccc tgcaacaggg tctgccagac ttcaccagtc aaagcatgtt gcagaacttt 25560  
 aggaacttta tcctagagcg ctccaggaatc ttgcccgcca cctgctgtgc acttcctagc 25620  
 gactttgtgc ccattaagta ccgcgaatgc cctccgcgcg tttggggcca ctgctacctt 25680  
 ctgcagctag ccaactacct tgctaccac tctgacataa tggaaagacgt gagcgggtgac 25740  
 ggtctactgg agtgtcactg tcgctgcaac ctatgcaccc cgcaccgctc cctgggttg 25800  
 aattcgcagc tgcttaacga aagtcaaat atcggtacct ttgagctgca gggcctctcg 25860  
 cctgacgaaa agtccgcggc tccgggggtt aaactcactc cggggctgtg gacgtcggt 25920  
 taccttcgca aatttgtacc tgaggactac cagcccccag agattaggt ctacgaagac 25980  
 caatccgcgc cgccaaatgc ggagcttacc gcctgcgtca ttaccaggg ccacattctt 26040  
 ggccaattgc aagccatcaa caaagccgc caagagtttc tgctacgaaa gggacggggg 26100  
 gtttacttgg acccccagtc cggcgaggag ctcaacccaa tcccccgcc gccgcagccc 26160  
 tatcagcagc agccgcgggc cttgtcttc caggatggca cccaaaaaga agctgcagct 26220  
 gccgcgcgca cccacggacg aggaggaata ctgggacagt caggcagagg aggttttggg 26280

cgaggaggag	gaggacatga	tggaagactg	ggagagccta	gacgaggaag	cttccgaggt	26340
cgaagaggtg	tcagacgaaa	caccgtcacc	ctcgggtcgca	ttccccctcgc	cggcgccccca	26400
gaaatcggca	accggttcca	gcatggctac	aacctccgct	cctcaggcgc	cgccggcact	26460
gcccgttcgc	cgacccaacc	gtagatggga	caccactgga	accagggccg	gtaagtccaa	26520
gcagccgcgc	ccgttagccc	aagagcaaca	acagcgccaa	ggctaccgct	catggcgcg	26580
gcacaagaac	gccatagttg	cttgcttgca	agactgtggg	ggcaacatct	ccttcgccc	26640
ccgctttctt	ctctaccatc	acggcggtggc	cttcccccg	aacatccctgc	attactaccg	26700
tcattctctac	agcccatact	gcacggcgcg	cagcggcagc	ggcagcaaca	gcagcgccca	26760
cacagaagca	aaggcgaccg	gatatgcaaga	ctctgacaaa	gcccagaana	tccacagcgg	26820
cggcagcagc	aggaggagga	gcgctgcgtc	tggcgcccaa	cgaacccgta	tcgacccgcg	26880
agcttagaaa	caggatTTTT	cccactctgt	atgctatat	tcaacagagc	aggggccaag	26940
aacaagagct	gaaaataaaa	aacagggtctc	tgcgatccct	cacccgcagc	tgctgtatc	27000
acaaaagcga	agatcagctt	cggcgcacgc	tggaagacgc	ggaggctctc	ttcagtaaat	27060
actgcgcgct	gactcttaag	gactagtttc	gcgccctttc	tcaaatttaa	gcgcgaaaaa	27120
tacgtcatct	ccagcggcca	cacccggcgc	cagcacctgt	cgtcagcgcc	attatgagca	27180
aggaaattcc	cacgccttac	atgtggagtt	accagccaca	aatgggactt	gcgctggag	27240
ctgcccaga	ctactcaacc	cgaataaaact	acatgagcgc	gggacccac	atgatattccc	27300
gggtcaacgc	aatccgcgc	caccgaaacc	gaattctctt	ggaacaggcg	gctattacca	27360
ccacacctcg	taataacctt	aatccccgta	gttggccgc	tgccctggtg	taccaggaaa	27420
gtcccgcctc	caccactgtg	gtacttccca	gagacgccc	ggccgaagtt	cagatgacta	27480
actcaggggc	gcagcttgcg	ggcggttttc	gtcacagggt	gcgctcgccc	ggcgagggt	27540
taactcacct	gacaatcaga	ggcgagggta	ttcagctcaa	cgacgagtcg	gtgagctcct	27600
cgcttggctt	ccgtccggac	gggacatttc	agatcggcgc	cgccggccgt	ccttcattca	27660
cgctccgta	gcgaatccta	actctgcaga	cctcgctctc	tgagccgcgc	tctggaggca	27720
ttggaactct	gcaatttatt	gaggagtttg	tgccatcggt	ctactttaac	cccttctcgg	27780
gacctcccg	ccactatccg	gatcaattta	ttcctaactt	tgacgcggta	aaggactcgg	27840
cggacggcta	cgactgaatg	taaagtggag	aggcagagca	actgcgcctg	aaacacctgg	27900
tcactgtctg	ccgccacaag	tgctttgccc	gcgactccgg	tgagttttgc	tactttgaat	27960
tgcccaggga	tcatatcgag	ggccgcgcgc	acggcgctcg	gcttaccgcc	caggagagc	28020
ttgcccgtag	cctgattcgg	gagtttacc	agcgcgccct	gctagttgag	cgggacagg	28080
gacctgtgtg	tctcactgtg	atttgcaact	gtcctaacct	tggattacat	caagatcttt	28140
gttgccatct	ctgtgctgag	tataataaat	acagaaatta	aaatatactg	gggctcctat	28200
gcgcactctg	taaacgccac	cgctctcacc	cgcccaagca	aaccaaggcg	aaccttacct	28260
ggtaacttta	acatctctcc	ctctgtgatt	tacaaacagtt	tcaaccacga	cggagtgaat	28320
ctacgagaga	acctctccga	gtcagctac	tccatcagaa	aaaacaccac	cctccttacc	28380
tgccgggaac	gtacgagtg	gtcaccggcc	gctgcaccac	acctaccgoc	tgaccgtaaa	28440
ccagactttt	tccggacaga	cctcaataac	tctgtttacc	agaacaggag	gtgagcttag	28500
aaaaccctta	gggtattagg	ccaaaggcgc	agctactgtg	gggtttatga	acaattcaag	28560
caactctacg	ggctattcta	attcagggtt	ctctagaagt	caggcttctt	ggatgtcagc	28620
atctgacttt	ggccagcacc	tgtcccgcg	atttgttcca	gtccaactac	agcgaccac	28680
cctaacagag	atgaccaaca	caaccaacgc	ggccgcgcgt	accggactta	catctaccac	28740
aaatacaccc	caagtttctg	cctttgtcaa	taactgggat	aacttgggca	tgtggtggtt	28800
ctccatagcg	cttatgtttg	tatgccttat	ttattgtgg	ctcatctgct	gcctaaagcg	28860
caaacgcgc	cgaccaccca	tctatagtc	catcattgtg	ctacacccaa	acaatgatgg	28920
aatccataga	ttggacggac	tgaacacat	gttcttttct	cttacagtat	gattaaatga	28980
gatctagaaa	tgagcgggat	tattacagag	cagcgctgc	tagaaagacg	cagggcagcg	29040
gccgagcaac	agcgcatgaa	tcaagagctc	caagacatgg	ttaacttgca	ccagtgcata	29100
aggggtatct	tttgtctggt	aaagcaggcc	aaagtcaact	acgacagtaa	taccaccgga	29160
caccgcctta	gctacaagtt	gccaaaccaag	cgtcagaaat	tggtggtcat	ggtgggagaa	29220
aagcccat	ccataactca	gcactcggta	gaaaccgaag	gctgcattca	ctcaccttgt	29280
caaggacctg	aggatctctg	cacccttatt	aagaccctgt	gcggtctcaa	agatcttatt	29340
ccctttaact	aataaaaaaa	aataataaag	catcacttac	ttaaaatcag	ttagcaaat	29400
tctgtccagt	ttattcagca	gcacctcctt	gcctctctcc	cagctctggt	attgcagctt	29460
cctcctggct	gcaaactttc	tccacaatct	aaatggatg	tcagtttctt	cctgttctctg	29520
tccatccgca	cccactatct	tcattgtgtt	gcagatgaag	cgcgcaagac	cgtctgaaga	29580
taccttcaac	cccggtgtatc	catatgacac	ggaaaccggt	cctccaactg	tgccctttct	29640
tactcctccc	ttgtatcccc	ccaatgggtt	tcaagagagt	ccccctgggg	tactctcttt	29700
gcgcctatcc	gaacctctag	ttacctccaa	tcagctgctt	gcgctcaaaa	tgggcaacgg	29760
cctctctctg	gacgaggccg	gcaaccttac	ctcccaaaat	gtaaccactg	tgagccacc	29820
tctcaaaaaa	accaagtcata	acataaacct	ggaaatatct	gcacccctca	cagttacctc	29880
agaagcccta	actgtggctg	ccgccgcacc	tctaattggtc	gcgggcaaca	cactcaccat	29940
gcaatcacag	gccccgctaa	ccgtgcacga	ctccaaactt	agcattgcca	cccaaggacc	30000
cctcacagtg	tcagaaggaa	agctagccct	gcaaacatca	ggccccctca	ccaccaccga	30060
tagcagtacc	cttactatca	ctgectcacc	ccctctaact	actgccactg	gtagcttggg	30120
cattgacttg	aaagagccca	tttatcacaca	aatggaaaaa	ctaggactaa	agtagggggc	30180
tcctttgcat	gtaacagacg	acctaacaac	tttgaccgta	gcaactgggtc	cagggtgtgac	30240

tattaataat acttccttgc aaactaaagt tactggagcc ttgggttttg attcacaagg 30300  
caatatgcaa cttaatgtag caggaggact aaggattgat tctcaaaaca gacgccttat 30360  
acttgatgtt agttatccgt ttgatgtctc aaaccaacta aatctaagac taggcacagg 30420  
ccctcttttt ataaactcag cccacaactt ggatattaac tacaacaaag gcctttactt 30480  
gtttacagct tcaaacaatt ccaaaaagct tgagggttaac ctaagcactg ccaaggggtt 30540  
gatgtttgac gctacagcca tagccattaa tgcaggagat gggcttgaat ttgggttcacc 30600  
taatgcacca aacacaaatc ccctcaaaac aaaaattggc catggcctag aatttgattc 30660  
aaacaaggct atggttccta aactaggaac tggccttagt tttagacagca cagggtgccat 30720  
tacagtagga aacaaaaata atgataagct aacttttgtg accacaccag ctccatctcc 30780  
taactgtaga ctaaattgcag agaaagatgc taaactcact ttggtcttaa caaaatgtgg 30840  
cagtcaataa cttgctacag tttcagtttt gctgtgtaaa ggcagttttg ctccaatatc 30900  
tggaacagtt caaagtgtct atcttattat aagatttgac gaaaatggag tgctactaaa 30960  
caattccttc ctggaccagc aatattggaa ctttagaaat ggagatctta ctgaaggcac 31020  
agcctatata aacgctgttg gatttatgcc taacctatca gcttatccaa aatctcacgg 31080  
taaaactgcc aaaagtaaca ttgtcagtca agtttactta aacggagaca aaactaaacc 31140  
tgtaaacata accattacac taaacgttac acaggaacaa ggagacacaa ctccaagtgc 31200  
atactctatg tcattttcat gggactggtc tggccacaac tacattaatg aaatatttgc 31260  
cacatcctct tacacttttt catacattgc ccaagaataa agaatcgttt gtgttatgtt 31320  
tcaacgtgtt tatttttcaa ttgcagaaaa tttcaagtca ttttctattc agtagtatag 31380  
ccccaccacc acatagctta tacagatcac cgtaccttaa tcaaactcac agaaccctag 31440  
tattcaacct gccacctccc tcccaacaca cagagtacac agtcctttct ccccggtggt 31500  
ccttaaaaag catcatatca tgggtaacag acatattctt aggtgttata ttccacacgg 31560  
tttctgtctg agccaaacgc tcatcagtga tattaataaa ctccccgggc agtctactta 31620  
agttcatgtc gctgtccagc tgctgagcca caggctgtgt tccaacttgc ggttgcctaa 31680  
cgggcccgtg aggagaagtc cagcctaca agcgcgcgaa taaactgctg ccgcccgcgc tccgtcctgc 31740  
tagggcgggtg gtgctgcagc agcgcgcgaa cagtgattcg ccatgactcg caccgcccgc agcataaggc 31800  
aggaatacaa catggcagtg gtctcctcag cgtatctact taaatcagca cagtaactgc 31860  
gccttgtcct ccgggacagc cagcgcaccc tgatctcact cacaagtcaa ggcgctgtat ccaaagctca 31920  
agcacagcac cacaatattg ttcaaaatcc cactagtgcaa ggcgaggtag attaatggc 32040  
tggcggggac cacagaacct acgtggccat cataccacaa ttacctctt ttggcatgtg taattcacca 32100  
gacctctcat aaacacgctg gacataaaca ctctgattaa acatggcgcc atccaccacc atcctaacc 32160  
cctcccggta ccatataaac ctctgattaa actgcaggga accgggactg gaacaatgac 32220  
agctggccaa aacctgcccg ccggctatac tcatcatgct cgctcatgata tcaatgttgg 32280  
agtggagagc ccaggactcg atacacttcc tcaggattac aagctcctcc cgcgttagaa 32340  
cacaacacag gcacacgtgc cattcctgaa tcagcgtaaa tcccacactg cagggaagac 32400  
ccatatacca gggaacaacc tgcattgtca aagtgttaca ttccgggcagc agcggatgat 32460  
ctcgcacgta actcagcttg gtttctgtct caaaaggagg tagacgatcc ctactgtacg 32520  
cctccagtat ggtagcgcgg gatcgtgttg gtcgtagtgt catgccaaat ggaacgcgg 32580  
gagtgcgcgg agacaaccga gataatggc gtgcggcggt gacaaacaga tctgcgtctc 32640  
acgtagtcat atttctgaa gctctgttag tagttgtagt atatccactc catgcgcgcg 32700  
cggctctgcc gcttagatcg ctctgtgtag taaactcctt catgcgcgcg tgccctgata 32760  
tccaggcgcc ccctggcttc gggttctatg agccacacc cacttcggtt ctgcgagtca 32820  
acatccacca ccgcagaata agctggaaga accatgtttt tttttttatt ccaaagatt 32880  
cacacgggag gagcgggaag gatctattaa gtgaacgcgc tcccctccgg tggcgtggtc 32940  
atccaaaacc tcaaatgaa gatctattaa gtaaggcgt tgggtgcaaa ttgcttccaa 33000  
aaactctaca gccaaagaac agataatggc atttgtaaga aaccttccag ggtgaatctc 33060  
aaggcaaacg gccctcacgt ccaagtggac gccaataa ttctcatctc gccaccttct 33120  
ctctataaac attccagcac cttcaacctt cccgaatatt aagtccggcc attgtaaaaa 33180  
caatatatct ctaagcaaatt tcaagcagcg aatcatgatt gcaaaaaattc aggttctctc 33240  
agcgccttcc accttcagcc tcaagcagcg ttaacaaaaa taccgcgac ccgtaggctc 33300  
cagacctgta taagattcaa aagcggaaca aggtctgcac ggaccagcgc ggccacttcc 33360  
cttcgcaggg ccagctgaac ataactgtgc ctgattatga cacgcatact cggagctatg 33420  
ccgcagggaa ccttgacaaa agaaccaca gtaagctttg ttgcatggc ggcgatataa 33480  
ctaaccagcg tagccccgat gtaagctttg caaaaaagaa agcacatcgt agtcatgctc 33540  
gctgctcaaa aaatcaggca aagcctcgcg caccacagaa aaagacacca ttttctctc 33600  
atgcagataa aggcaggtaa gctccggaac aaaaataaat aacaaaaaaa catttaaa 33660  
aaacatgtct gcgggtttct gcataaacac acccttataa gcataagacg gactacggcc 33720  
ttagaagcct gtcttacaac aggaaaaaca ccgtgattaa aaagcaccac cgacagctcc 33780  
atgccggcgt gaccgtaaaa aaactgggta tcggtaaaaa acccgagcgc gtagagacaa 33840  
tcgggtcatg ccggagtcac aatgtaagac ggaataacat gagaaaaaca cataaacacc 33900  
cagtgtctaa aagcgaccga gtataacaaa accctcccgc tccagaacaa catacagcgc 33960  
cattacagcg cccataggag gcaaaaatagc cagtaaaaaa agaaaaaccta ttaaaaaaac 34020  
tgaaaaaacc tcctgcctag gtcagcctta cagagtgtaa aaaagggcca agtgacagc 34080  
ttcacagcgg cagcctaaca ctcaatcagt cacagtgtaa ccacaaaaaa caccagaaa 34140  
accactcgac acggcaccag cgggttaaagt ccaaaaaaaa caccagaaa 34200  
gagtatatat aggactaaaa aatgacgtaa cgggttaaagt ccaaaaaaaa caccagaaa 34200

accgcacgcg aacctacgcc cagaaacgaa agccaaaaaa cccacaactt cctcaaactc 34260  
 tcacttccgt tttccacgt tacgtaactt cccattttta gaaaactaca attcccaaca 34320  
 catacaagtt actccgcctt aaaacctacg tcacccgccc cggtccacg cccgcgcga 34380  
 cgtcacaaac tccacccctt cattatcata ttggcttcaa tccaaaataa ggtatattat 34440  
 tgatgatg 34448

<210> 5

<211> 94

<212> PRT

<213> Adenovirus subgroup C

<400> 5

Met Val Asp Thr Val Asn Ser Tyr Asn Thr Ala Thr Gly Leu Thr Ser  
 1 5 10 15

Ala Leu Asn Leu Pro Gln Val Ser Thr Phe Val Asn Asn Trp Ala Asn  
 20 25 30

Leu Gly Met Trp Trp Phe Ser Ile Ala Leu Met Phe Val Cys Leu Ile  
 35 40 45

Ile Met Trp Leu Ser Cys Cys Leu Lys Arg Lys Arg Ala Arg Pro Pro  
 50 55 60

Ile Tyr Lys Pro Ile Ile Val Leu Asn Pro Asn Asn Asp Gly Ile His  
 65 70 75 80

Arg Leu Asp Gly Leu Asn Thr Cys Ser Phe Ser Phe Ala Val  
 85 90

<210> 6

<211> 101

<212> PRT

<213> Adenovirus subgroup C

<400> 6

Met Thr Gly Ser Thr Ile Ala Pro Thr Thr Asp Tyr Arg Asn Thr Thr  
 1 5 10 15

Ala Thr Gly Leu Thr Ser Ala Leu Asn Leu Pro Gln Val His Ala Phe  
 20 25 30

Val Asn Asp Trp Ala Ser Leu Asp Met Trp Trp Phe Ser Ile Ala Leu  
 35 40 45

Met Phe Val Cys Leu Ile Ile Met Trp Leu Ile Cys Cys Leu Lys Arg  
 50 55 60

Arg Arg Ala Arg Pro Pro Ile Tyr Arg Pro Ile Ile Val Leu Asn Pro  
 65 70 75 80

His Asn Glu Lys Ile His Arg Leu Asp Gly Leu Lys Pro Cys Ser Leu  
 85 90 95

Leu Leu Gln Tyr Asp  
 100

<210> 7

<211> 93

<212> PRT

<213> Adenovirus subgroup C

<400> 7

Met Thr Asn Thr Thr Asn Ala Ala Ala Thr Gly Leu Thr Ser Thr



1	5					10					15				
Thr	Asn	Thr	Pro	Gln	Val	Ser	Ala	Phe	Val	Asn	Asn	Trp	Asp	Asn	Leu
			20					25					30		
Gly	Met	Trp	Trp	Phe	Ser	Ile	Ala	Leu	Met	Phe	Val	Cys	Leu	Ile	Ile
		35					40					45			
Met	Trp	Leu	Ile	Cys	Cys	Leu	Lys	Arg	Lys	Arg	Ala	Arg	Pro	Pro	Ile
	50					55					60				
Tyr	Ser	Pro	Ile	Ile	Val	Leu	His	Pro	Asn	Asn	Asp	Gly	Ile	His	Arg
65					70					75					80
Leu	Asp	Gly	Leu	Lys	His	Met	Phe	Phe	Ser	Leu	Thr	Val			
				85					90						

```
<210> 8
<211> 95
<212> PRT
<213> Adenovirus subgroup C
```

```

<400> 8
Met Val Asp Thr Val Asn Ser Tyr Asn Thr Ala Thr Gly Leu Lys Ser
  1                      5                      10                      15
Ala Leu Asn Leu Pro Gln Val His Ala Phe Val Asn Asp Trp Ala Ser
  20                      25                      30
Leu Gly Met Trp Trp Phe Ser Ile Ala Leu Met Phe Val Cys Leu Ile
  35                      40                      45
Ile Met Trp Leu Ile Cys Cys Leu Lys Arg Arg Arg Ala Arg Pro Pro
  50                      55                      60
Ile Tyr Arg Pro Ile Ile Val Leu Asn Pro His Asn Glu Lys Ile His
  65                      70                      75                      80
Arg Leu Asp Gly Leu Lys Pro Cys Ser Leu Leu Leu Gln Tyr Asp
  85                      90                      95

```

```
<210> 9
<211> 78
<212> PRT
<213> Adenovirus subgroup C
```

```

<400> 9
Met Thr Gly Ser Thr Ile Ala Pro Thr Thr Asp Tyr Arg Asn Thr Thr
  1          5          10          15
Ala Thr Gly Leu Thr Ser Ala Leu Asn Leu Pro Gln Val His Ala Phe
          20          25          30
Val Asn Asp Trp Ala Ser Leu Asp Met Trp Trp Phe Ser Ile Ala Leu
          35          40          45
Met Phe Val Cys Leu Ile Ile Met Trp Leu Ile Cys Cys Leu Lys Arg
          50          55          60
Arg Arg Ala Arg Pro Pro Ile Tyr Arg Pro Ile Ile Val Leu
          65          70          75

```

<210> 10

<211> 87  
 <212> PRT  
 <213> Adenovirus subgroup C

<400> 10  
 Met Thr Gly Ser Thr Ile Ala Pro Thr Thr Asp Tyr Arg Asn Thr Thr  
   1                  5                  10                  15  
 Ala Thr Gly Leu Thr Ser Ala Leu Asn Leu Pro Gln Val His Ala Phe  
           20                  25                  30  
 Val Asn Asp Trp Ala Ser Leu Asp Met Trp Trp Phe Ser Ile Ala Leu  
           35                  40                  45  
 Met Phe Val Cys Leu Ile Ile Met Trp Leu Ile Cys Cys Leu Lys Arg  
       50                  55                  60  
 Arg Arg Ala Arg Pro Pro Ile Tyr Arg Pro Ile Gly Leu Lys Pro Cys  
       65                  70                  75                  80  
 Ser Leu Leu Leu Gln Tyr Asp  
                   85

<210> 11  
 <211> 77  
 <212> PRT  
 <213> Adenovirus subgroup C

<400> 11  
 Met Thr Gly Ser Thr Ile Ala Pro Thr Thr Asp Tyr Arg Asn Thr Thr  
   1                  5                  10                  15  
 Ala Thr Gly Leu Thr Ser Ala Leu Asn Leu Pro Gln Val His Ala Phe  
           20                  25                  30  
 Val Asn Asp Trp Ala Ser Leu Asp Met Trp Trp Phe Ser Ile Ala Leu  
           35                  40                  45  
 Met Phe Val Cys Leu Ile Ile Met Trp Leu Ile Cys Cys Leu Lys Arg  
       50                  55                  60  
 Arg Arg Ala Arg Pro Pro Ser Leu Leu Leu Gln Tyr Asp  
       65                  70                  75

<210> 12  
 <211> 84  
 <212> PRT  
 <213> Adenovirus subgroup C

<400> 12  
 Met Thr Gly Ser Thr Ile Ala Pro Thr Thr Asp Tyr Arg Asn Thr Thr  
   1                  5                  10                  15  
 Ala Thr Gly Leu Thr Ser Ala Leu Asn Leu Pro Gln Ile Ala Leu Met  
           20                  25                  30  
 Phe Val Cys Leu Ile Ile Met Trp Leu Ile Cys Cys Leu Lys Arg Arg  
           35                  40                  45  
 Arg Ala Arg Pro Pro Ile Tyr Arg Pro Ile Ile Val Leu Asn Pro His  
       50                  55                  60  
 Asn Glu Lys Ile His Arg Leu Asp Gly Leu Lys Pro Cys Ser Leu Leu  
       65                  70                  75                  80

Leu Gln Tyr Asp

<210> 13

<211> 35724

<212> DNA

<213> Adenovirus subgroup C

<400> 13

```

catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60
ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagtagtgtg gcggaagtgt 120
gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgtttttg 180
gtgtgcgcgg gtgtacacag gaagtacaaa ttttcgcgcg gttttaggcg gatgttgtag 240
taaatttggg cgtaacggag taagatttgg ccattttcgc gggaaaactg aataagagga 300
agtgaatctt gaataatttt gtgttactca tagcgcgtaa tatttgtcta gggccgcggg 360
gactttgacc gtttacgtgg agactcgccc aggtgttttt ctgaggtgtt ttccgcgttc 420
cgggtcaaag ttggcgtttt attattatag tcagctgacg tgtagtgtat ttataccggg 480
tgagttcctc aagaggccac tcttgagtgc cagcgagtag agttttctcc tccgagccgc 540
tccgacaccg ggaactgaaa tgagacatga ggtactggct gataatcttc cacctcctag 600
ccattttgaa ccacctaccc ttacgaact gtatgattta gacgtgacgg ccccggaaga 660
gactttgacc gaggcggttt cgcagatttt tcccgactct gtaatgttgg cgggtgcagga 720
agggattgac ttactcactt ttccgcggcg gcccggttct ccggagccgc ctacaccttc 780
ccggcagccc gagcagccgg agcagagagc cttgggtccg gtttgccacg aggtctggctt 840
tccacccagt gacgacgagg atgaagaggg tgaggagttt gtgttagatt atgtggagca 900
ccccgggcac ggttgacagg cttgtcatta tcaccggagg aatacggggg acccagatat 960
tatgtgttcg ctttgctata tgaggacctg tggcatgttt gtctacagta agtgaaaaatt 1020
atgggcagtg ggtgatagag tgggtgggtt ggtgtggtaa tttttttttt aattttttaca 1080
gttttgttgt ttaaagaatt ttgtatttgt atttttttaa aaggtcctgt gtctgaacct 1140
gagcctgagc ccgagccaga accggagcct gcaagacctt cccgccgtcc taaaatggcg 1200
cctgctatcc tgagacgccc gacatcacct gtgtctagag aatgcaatag tagtacggat 1260
agctgtgact ccggtccttc taacacacct cctgagatac acccggtggt cccgctgtgc 1320
cccattaaac cagttgccgt gagagttggt gggcgctgcc aggtctgtgga atgtatcgag 1380
gacttgctta acgagcctgg gcaacctttg gacttgagct gtaaaccgcc caggccataa 1440
ggtgtaaacc tgtgattgag tgtgtgggta acgcctttgt ttgctgaatg agttgatgta 1500
agtttaataa agggtagatg aatgtttaac ttgcatggcg tgttaaattg ggcggggcctt 1560
aaagggtata taatgcgcgg tgggctaata ctggttacat ctgacctcat ggaggcttgg 1620
gagtggtttg aagatttttc tgctgtgcgt aacttgctgg aacagagctc taacagtacc 1680
tcttggtttt ggaggtttct gtggggctca tcccaggcaa agttagtctg cagaattaag 1740
gaggattaca agtggaattt tgaagagctt ttgaaatcct gtggtgagct gtttgattct 1800
ttgaactctg gtcaccaggc gctttttcaa gagaaggcca tcaagacttt ggatttttcc 1860
acaccggggc gcgctgcggc tgctgttgct tttttgagtt ttataaagga taaatggagc 1920
gaagaaaccc atctgagcgg ggggtacctg ctggattttc tggccatgca tctgtggaga 1980
gcggttgtga gacacaagaa tcgcctgcta ctgttgtctt ccgtccgccc ggcgataata 2040
ccgacggagg agcagcagca gcagcaggag gaagccaggc ggcggcgcca ggagcagagc 2100
ccatggaacc cgagagcccg cctggaccct cggaatgaa tggtgtacag gtggctgaac 2160
tgtatccaga actgagacgc attttgacaa ttacagagga tgggcagggg ctaaaagggg 2220
taaagaggga gcggggggct tgtgaggcta cagaggaggc taggaatcta gcttttagct 2280
taatgaccag acaccgtcct gagtgtatta cttttcaaca gatcaaggat aattgcgcta 2340
atgagcttga tctgctggcg cagaagtatt ccatagagca gctgaccact tactggctgc 2400
agccagggga tgattttgag gaggttatta gggatatgca aaaggtggca cttaggccag 2460
attgcaagta caagatcagc aaacttgtaa atatcaggaa ttgttgctac atttctggga 2520
acggggccga ggtggagata gatacggagg atagggtggc ctttagatgt agcatgataa 2580
atatgtggcc gggggtgctt ggcattggag ggggtggtat tatgaatgta aggtttactg 2640
gccccaatth tagcggtagc gttttcctgg ccaataccaa ccttatccta cacggtgtaa 2700
gcttctatgg gtttaacaat acctgtgtgg aagcctggac cgatgtaagg gttcggggct 2760
gtgcctttta ctgctgctgg aaggggggtg tgtgtcgccc caaaagcagg gcttcaatta 2820
agaaatgcct ctttgaaagg tgtaccttgg gtatcctgtc tgagggtaac tccagggtgc 2880
gccacaatgt ggcctccgac tgtggttgct tcatgctagt gaaaagcgtg gctgtgatta 2940
agcataacat ggtatgtggc aactgcgagg acagggcctc tcagatgctg acctgctcgg 3000
acggcaactg tcacctgctg aagaccattc acgtagccag ccactctcgc aaggcctggc 3060
cagtgtttga gcataacata ctgacccgct gttccttgca tttgggtaac aggagggggg 3120
tgttcctacc ttaccaatgc aatttgatgc acactaagat attgcttgag cccgagagca 3180
tgtccaaggt gaacctgaac ggggtgtttg acatgaccat gaagatctgg aaggtgctga 3240
ggtacgatga gacccgcacc aggtgcagac cctgcgagtg tggcggtaaa catattagga 3300

```

```

accagcctgt gatgctggat gtgaccgagg agctgaggcc cgatcacttg gtgctggcct 3360
gcaccgcgcg tgaagtttggc tctagcgaag aagatacaga ttgaggtact gaaatgtgtg 3420
ggcgtggcctt aagggtggga aagaatatat aagggtgggg tcttatgtag ttttgtatct 3480
gttttgacgc agccgcgcgc gccatgagca ccaactcgtt tgatggaagc attgtgagct 3540
catatttgac aacgcgcgatg ccccatggg ccggggtgcg tcagaatgtg atgggctcca 3600
gcattgatgg tcgccccgtc ctgcccgcga actctactac cttgacctac gagaccgtgt 3660
ctggaacgcc gttggagact gcagcctccg ccgcgccttc agccgctgca gccaccgccc 3720
gcgggattgt gactgacttt gctttcctga gcccgcttgc aagcagtgca gcttcccgtt 3780
catccgcccgc cgatgacaag ttgacggctc ttttggcaca attggattct ttgaccggg 3840
aacttaattgt cgtttctcag cagctgttgg atctgcgcca gcaggtttct gccctgaagg 3900
cttctctccc tcccaatgcg gtttaaaaca taaataaaaa accagactct gtttggattt 3960
ggatcaagca agtgtcttgc tgtctttatt taggggtttt gcgcgcgcgg taggcccggg 4020
accagcggtc tcggtcgttg agggctcctgt gtatttttcc caggacgtgg taaaggtgac 4080
tctggatggt cagatacatg ggcataagcc cgtctctggg gtggaggtag caccactgca 4140
gagcttcatg ctgcgggggtg gtgtttaga tgatccagtc gtagcaggag cgctgggctg 4200
gggtgcctaaa aatgtctttc agtagcaagc tgattgccag gggcaggccc ttggtgtaag 4260
tgtttacaaa gcggttaagc tgggatgggt gcatacgtgg ggatatgaga tgcactcttg 4320
actgtatttt taggttggct atgttcccag ccatatccct ccggggattc atgttgtgca 4380
gaaccaccag cacagtgtat ccggtgcact tgggaaattt gtcattgtagc ttagaaggaa 4440
atgcgtggaa gaacttggag acgcccctgt gacctccaag attttccatg cattcgtcca 4500
taatgatggc aatgggcccga cgggcggcgg cctggggcga gatatttctg ggatcactaa 4560
cgtcatagtt gtgttccagg atgagatcgt cataggccat ttttacaagg cgcgggcgga 4620
gggtgccaga ctgcgggtata atgtttccat ccggcccagg ggcgtagtta ccctcacaga 4680
tttgcatctt ccacgctttg agttcagatg gggggatcat gtctacctgc gggcgatga 4740
agaaaacggt ttcggggta ggggagatca gttgggaaga aagcaggttc ctgagcagct 4800
gcgacttacc gcagccgggtg ggcccgtaaa tcacacctat taccgggtgc aactggtagt 4860
taagagagct gcagctgccg tcatccctga gcaggggggc cacttcgtta agcatgtccc 4920
tgactcgcat gttttccctg accaaatccg ccagaaggcg ctgcgcgcgc agcatagca 4980
gttcttgcaa ggaagcaaa gttttcaacg gtttgagacc gtccgcgta ggcattgctt 5040
tgagcgtttg accaagcagt tccaggcggg cccacagctc ggtcacctgc tctacggcat 5100
ctcgatccag catactctct cgtttcgcg gttggggcgg ctttcgctgt acggcagtag 5160
tcgggtgctcg tccagacggg ccagggtcat gcttttccac gggcgaggg tctctgctag 5220
cgtagtcttg gtcacgggtg aggggtgcgc tccgggctgc gcgctggcca ggggtgcgct 5280
gaggctgggt ctgctgggtg tgaaagcgtg ccggtcttcg cctgcgcgt cgccaggtta 5340
gcatttgacc atgggtgcat agtccagccc ctccgcggcg tggcccttgg cgcgagctt 5400
gcccttggag gaggcgcgc acgaggggca gtgcagactt ttgagggcgt agagcttggg 5460
cgcgagaaat accgattccg gggagtaggc atccgcgcgc caggccccgc agacggtctc 5520
gcattccacg agccaggtga gctctggccg ttcggggtca aaaaccaggg ttccccatg 5580
ctttttgatg cgtttcttac ctctggtttc catgagccgg tgtccacgct cggtgacgaa 5640
aaggtgtcc gtgtccccgt atacagactt gagaggcctg tctcagagcg gtgtccgcg 5700
gtcctctcgc tatagaaact cggaccactc tgagacaaag gctcgcgtcc aggccagcac 5760
gaaggaggct aagtgggagg ggtagcggtc gttgtccact aggggggtcca ctgcgtccag 5820
ggtgtgaaga cacatgtcgc cctcttcggc atcaaggaag gtgattggtt tgtagggtga 5880
ggccacgtga ccgggtgttc ctgaaggggg gctataaaag ggggtggggg cgcttctgc 5940
ctcactctct tccgcatcgc tgtctgcgag ggccagctgt tggggtgagt actcctctg 6000
aaaagcgggc atgacttctg cgctaagatt gtcagtttcc aaaaacgagg aggatttgat 6060
attcacctgg cccgcggtga tgcctttgag ggtggccgca tccatctggt cagaaaagac 6120
aatctttttg ttgtcaagct tgggtggcaa cgaccgtag agggcggttg acagcaactt 6180
ggcgatggag cgcagggttt ggtttttgtc gcgacggcg cgctccttgg ccgcgatgtt 6240
tagctgcacg tattcgcgcg caacgcaccg ccattcggga aagacggtgg tgcgctcgtc 6300
gggcaccagg tgcacgcgc aaccgcggtt gtgcagggtg acaagggtcaa cgctggtggc 6360
tacctctccg cgtaggcgct cgttgggtcca gcagaggcg ccgccttgc gcgagcagaa 6420
tggcgtagg ggtctagct cgtctcgtc ccgggggtct gcgtccacgg taaagacccc 6480
gggcagcagg cgcgcgtcga agtagtctat cttgcatcct tgcaagtcta gcgcctgctg 6540
ccatgcgcgg gcggcaagcg cgcgctcgtg tgggttgagt gggggacccc atggcatggg 6600
gtgggtgagc gcggaggcgt acatgccgca aatgtcgtaa acgtagaggg gctctctgag 6660
tattccaaga tatgtagggt agcatcttcc accgcgatg ctggcgcgca cgtaatcgta 6720
tagttcgtgc gagggagcga ggaggtcggg accgaggttg ctacgggcgg gctgctctgc 6780
tcggaagact atctgcctga agatggcatg tgagttggat gatattggtg gacgctggaa 6840
gacgttgaag ctggcgtctg tgagacctac cgcgtcacgc acgaaggagg cgtaggagtc 6900
gcgcagcttg ttgaccagct cggcggtgac ctgcacgtct agggcgagc agtccagggt 6960
ttccttgatg atgtcatact tatectgtcc ctttttttcc cacagctcgc ggttaggac 7020
aaactcttgc cggcttttcc agtactcttg gatcggaac ccgtcggcct ccgaacggta 7080
agagcctagc atgtagaact ggttgacggc ctggtaggcg cagcatccct tttctacggg 7140
tagcgcgtat gcctgcgcgg ccttccggag cgagggtgtg gtgagcgcaa aggtgtccct 7200
gacctgact ttgaggtact ggtatttgaa gtcagtgtcg tcgcatccgc cctgctccca 7260

```

gagcaaaaag tccgtgcgct ttttggaaac cggatttggc agggcggaagg tgacatcggt 7320  
 gaagagtatc tttcccgcg cgtgagtgatg 7380  
 ctgcgaacgg ttgttaatta cctgggagcg gagcacgac tcgtcaaaagc cgttgatgtt 7440  
 gtggcccaca atgtaaagtt ccaagaagcg cgggatgccc ttgatggaag gcaatttttt 7500  
 aagttcctcg taggtgagct cttcagggga gctgagcccg tgctctgaaa gggcccagtc 7560  
 tgcaagatga gggttggaag cgacgaatga gctccacagg tcacgggcca ttagcatttg 7620  
 caggtggtcg cgaaaggtcc taaactggcg acctatggcc attttttctg gggatgca 7680  
 gtagaaggta agcgggtctt gttcccagcg gtcccatcca aggttcgagg ctaggtctcg 7740  
 cgcggcagtc actagaggct catctccgccc gaacttcag accagcatga agggcacgag 7800  
 ctgcttccca aaggcccca tccaagtata ggtctctaca tcgtaggatga caaagagacg 7860  
 ctcggtgcca ggatgcgagc cgatcgggaa gaactggatc tcccgccacc aattggagga 7920  
 gtggctattg atgtgtgaa agtagaagtc cctgcgacgg gccgaacact cgtgctggct 7980  
 tttgtaaaaa cgtgcgcagc actggcagcg gtgcacgggc tgtacatcct gcacgaggtt 8040  
 gacctgacga ccgcgcacaa ggaagcagag tgggaatttg agccctcgc ctggcgggtt 8100  
 tggctggtg tcttctactt cggctgcttg tcttgaccg tctggctgct cgaggggagt 8160  
 tacggtgat cggaacca cgccgcgcca gcccaaaagtc cagatgtccg cgcgcgagg 8220  
 tcggagcttg atgacaacat cgcgagatg ggagctgtcc atggtctgga gctcccgagg 8280  
 cgctcaggtc ggcgggagct cctgcaggtt tacctcgcat agacgggtca gggcgaggc 8340  
 tagatccagg tgatacctaa tttccagggg ctggttgggt gcgcgctcga tggcttgcaa 8400  
 gaggccgat ccccgcgagg cgactacggt accgcgcggc gggcggtggg ccgcgggggt 8460  
 gtccctggat gatgcattca aaagcgggtga cgcgggcgag ccccgagg tagggggggc 8520  
 tccggacccc ccgggagagg gggcaggggc acgtcggcg cgcgcgaggg caggagctgg 8580  
 tgctgcgcgc taggttgct ggcgaacgag acgacgcggc ggttgatctc ctgaatctgg 8640  
 cgctctgag tgaagacgac gggcccggtg agcttgagcc tgaagagag ttcgacagaa 8700  
 tcaatttcgg tgcgttgac ggcggcctgg cgcaaatct cctgcacgtc tcttgagttg 8760  
 tcttgatagg cgatctcgcc catgaactgc tcatctctt cctcctggag atctccgct 8820  
 ccggctcgt ccacggtggc ggcgaggtcg ttgaaaatgc gggccatgag ctgcgagaag 8880  
 cgcttgaggc ctccctcgt ccagacgcgg ctgtagacca cgcccccttc ggcctcgcg 8940  
 gcgcgcagta ccacctgccc gagattgagc tccacgtgcc gggcgaagac ggcgtagttt 9000  
 cgagggcgct gaaagaggt gttgaggggt gtggcggtgt gttctgccac gaagaagta 9060  
 ataaccagc gtcgcaacgt ggattcgttg atatccccc aggcctcaag gcgctccatg 9120  
 gctcgtaga agtccacggc gaagtgtaaa aactgggagt tgcgcgcga cagggttaac 9180  
 tctcctcca gaagacggat gagctcggcg acagtgtcgc gcacctcgc ctcaaaaggct 9240  
 acaggggctt cttctcttcc ttcaatctcc tcttccataa gggcctcccc ttcttcttct 9300  
 tctggcgagg gtgggggagg ggggacacgg cggcgacgac ggcgcaccgg gagcggtcg 9360  
 acaaagcgct cgatcatctc cccgcggcga cgggcgatgg tctcggtgac ggcgcggcgg 9420  
 ttctcgcggg ggcgagttg gaagacgcgg cccgtcatgt cccggttatg ggttgagggg 9480  
 gggctgccat gcggcagggg tacggcgcta acgatgcac tcaacaattg ttgtgtaggt 9540  
 actccgccc cgagggacct gagcgagtc gcacgcaccg gatcggaata cctctcgaga 9600  
 aaggcgtcta accagtcaca gtgcgaaggt aggtgagca ccgtggcggg cggcagcggg 9660  
 cgcggtcggg ggtgtttct ggcgagggtg ctgctgatga tgtaattaaa gtagggcgtc 9720  
 ttgagacggc ggatggtcga cagaagcacc atgtccttg gtccggcctg ctgaatgcgc 9780  
 aggcggtcgg ccatgcccga ggttcgttt tgacatcgcc gcaggtcttt gtagtagtct 9840  
 tgcatgagcc tttctaccgg cacttcttct tctccttct ctgtcctgc atctcttgca 9900  
 tctatcgctg cgcgggggcg ggagtttggc cgtaggtggc gccctcttcc tcccatgcgt 9960  
 gtgaccccca agccctcat cggctgaagc agggctaggt cggcgacaac gcgctcggct 10020  
 aatatggcct gctgcacctg cgtgagggtg gactggaagt catccatgtc cacaagcggt 10080  
 tggtagcgcc ccgtgttgat ggtgtaagt cagttggcca taacggacca gttacggctc 10140  
 tggtagcccg gctgcgagag ctcggtgtac ctgagacgg agtaagccct cgagtcfaat 10200  
 acgtagtcgt tgcaagtccg caccaggtac tggatccca ccaaaaagt cgggcgcgcc 10260  
 tggcggtaga ggggcccagc taggtggcc ggggctccgg gggcgagatc ttccaacata 10320  
 aggcgatgat atccgtagat gtacctggac atccaggtga tgccggcgcc ggtggtggag 10380  
 gcgcgcggaa agtcgcggac gcggttccag atgttgcgca gcggcaaaaa gtgctccatg 10440  
 gtccggagcg tctggccggg caggcgcgcg caatcggtga cgctctagcg tgcaaaagga 10500  
 gagcctgtaa gcgggacac ttccgtgggtc tggtggataa attcgcaagg gtatcatggc 10560  
 ggacgaccgg ggttcgagcc ccgtatccgg cgtccgccc tgatccatgc ggttaccgccc 10620  
 cgctgtcga acccaggtgt gcgacgtcag acaacgggg agtgctcctt ttggttctct 10680  
 tccaggcgcg gcggctgct cgtagcttt tttggccact ggcgcgcgc agcgtaagcg 10740  
 gttaggctgg aaagcgaaag cattaagtgg ctcgctccct gtagccggag ggttattttc 10800  
 caagggttga gtcgaggac ccccggttc agtctcggac cgcccgact gcggcgaaac 10860  
 ggggtttgcc tcccgtcat gcaagacccc gcttgcaaat tctccggaa acagggacga 10920  
 gcccttttt tgctttccc agatgcaccc ggtgctgcgg cagatgcgcc cccctctca 10980  
 gcagcggaag gagcaagagc agcggcagac atgcagggca cctccctct ctctaccgc 11040  
 gtcaggagg gcgacatcc cggttgacgc ggcagcagat ggtgattacg aacccccgcg 11100  
 gcgcggggcc cggcactacc tggacttga ggaaggcgag ggcctggcgc ggctaggagc 11160  
 gccctctct gagcggtacc caagggtgca gctgaagcgt gatacgctg aggcgtacgt 11220

gccgcggcag aacctgtttc gcgaccgcga gggagaggag cccgaggaga tgcgggatcg 11280  
 aaagtccac gcagggcgcg agctgcgcga tggcctgaat cgcgagcggg tgctgcgcga 11340  
 ggaggacttt gagcccgacg cgcgaaccgg gattagtccc gcgcgcgcac acgtggcgcg 11400  
 cgccgacctg gtaaccgcat acgagcagac ggtgaaccag gagattaact ttcaaaaaag 11460  
 ctttaacaac cacgtgcgta cgcttggtgc gcgcgaggag gtggctatag gactgatgca 11520  
 tctgtgggac tttgtaagcg cgctggagca aaacccaaat agcaagccgc tcatggcgca 11580  
 gctgttctct atagtgcagc acagcaggga caacgaggca ttcagggatg cgctgctaaa 11640  
 catagtagag cccgagggcc gctggctgct cgatttgata aacatcctgc agagcatagt 11700  
 ggtgcaggag cgcagcttga gcctggctga caaggtggcc gccatcaact attcatgct 11760  
 tagcctggcg aagttttacg cccgcaagat ataccatacc ccttacgttc ccatagacaa 11820  
 ggaggtaaaag atcgaggggt tctacatgcg catggcgctg aaggtgctta ccttgagcga 11880  
 cgacctgggc gtttatcgca acgagcgcat ccacaaggcc gtgagcgtga gccggcgcg 11940  
 cgagctcagc gaccgcgagc tgatgcacag cctgcaaaag gccctggctg gcacggcgag 12000  
 ggccgataga gaggccgagt cctactttga cgcggcgct gacctgcgct gggcccaaag 12060  
 ccgacgcgcc ctggaggcag ctggggcgct gcgggtggcag ccgcgcgcgc 12120  
 tggcaacgtc ggcgcgctgg aggaatatga cgaggacgat gagtacgagc cagaggacgg 12180  
 cgagtactaa gcggtgatgt ttctgatcag atgatgcaag acgcaacgga cccggcggtg 12240  
 cgggcgcgcg tgacagagca gccgtccggc cttaactcca cggacgactg gcgccaggtc 12300  
 atggaccgca tcatgtcgct gactgcgcgc aatcctgacg cgttccgcga gcagcccgag 12360  
 gccaaccggc tctccgcaat tctggaagcg gtggtccggc cgcgcgcaaa cccacgcac 12420  
 gagaaggtgc tggcgatcgt aaacgcgctg gccgaaaaca gggccatccg gcccgacgag 12480  
 gccggcctgg tctacgacgc gctgcttcag cgcgtggctc gttacaacag cggcaacgtg 12540  
 cagaccaacc tggaccggct ggtgggggat gtgcgcgagg ccgtggcgca gcgtgagcgc 12600  
 gcgcagcagc agggcaacct gggctccatg gttgactaaa acgccttcct gactacacag 12660  
 cccgccaaag tgccgcgggg acaggaggac tacaccaact ttgtgagcgc actgcccgtg 12720  
 atggtgactg agacaccgca aagtgaggtg taccagtctg ggccagacta ttttttccag 12780  
 accagtagac aaggcctgca gaccgtaaac ctgagccagg ctttcaaaaa cttgcagggg 12840  
 ctgtgggggg tgccggctcc cacaggcgac cgcgcgaccg tgtctagctt gctgacgcc 12900  
 aactcgcgcc tgttgctgct gctaatagcg ccttccacgg acagtggcag cgtgtcccgg 12960  
 gacacatacc taggtcactt gctgacactg taccgcgagg ccataggtca ggcgcagtgt 13020  
 gacgagcata ctttccagga gattacaagt gtcagccgcg cgctggggca ggaggacacg 13080  
 ggcagcctgg aggcacacct aaactacctg ctgaccaacc ggccgagcaa gatccccctg 13140  
 ttgcacagtt taaacagcga ggaggagcgc attttgcgct acgtgcagca gaggcgtgagc 13200  
 cttaacctgg tgccgcagcg ggtaacgccc agcgtggcgc tggacatgac cgcgcgcaac 13260  
 atggaaccgg gcatgtatgc ctcaaaccgg ccggttatca accgcctaata ggactacttg 13320  
 catcgcgcgg ccgccgtgaa ccccgagtat ttcaccaatg ccatcttgaa cccgcacttg 13380  
 ctaccgcccc ctggttttcta caccggggga ttcgagggtg ccgagggtaa cgatggattc 13440  
 ctctgggacg acatagacga cagcgtgttt tccccgcaac cgcagacct gctagatttg 13500  
 caacagcgcg agcaggcaga ggcggcgctg cgaaaggaaa gcttccgcag gccaaagcag 13560  
 ttgtccgacg taggcgctgc ggcccccgcg tcagatgcta gtagccatt tccaagcttg 13620  
 ataggggtctc ttaccagcac tcgcaccacc cgcgcgcgcc tgctgggcga ggaggagtac 13680  
 ctaaaacaact cgctgctgca gccgcagcgc gaaaaaaacc tgccctccggc atttcccaac 13740  
 aacgggatag agagcctagt ggacaagatg agtagatgga agacgtacg gcaggagcac 13800  
 agggacgtgc caggcccgcg cccgcccacc cgtcgtcaaa ggcacgaccg tcagcggggg 13860  
 ctggtgtggg aggcagatga ctcggcagac gacagcagcg tcctggattt gggagggagt 13920  
 ggcaaccctg ttgcgcacct tcgccccagg ctggggagaa tgttttaaaa aaaaaaagc 13980  
 atgatgcaaa ataaaaaact caccaaggcc atggcaccga gcgttggttt tcttgatttc 14040  
 cccttagtat gcggcgcgcg gcgatgtatg aggaaggtcc tctccctcc tacgagagt 14100  
 tggtagcgcg ggcgccagtg gcggcgcgcg ctaccggggg ctaccggggg gagaaacagc atccgttact 14220  
 cgccgtttgt gcctccgcgg tacctgcggc gtgtgtacct ggtggacaac aagtcaacgg 14280  
 ctgagttggc acccctattc gacaccaccc gataacgacc tctgaccag gtcattcaaa 14340  
 atgtggcatc cctgaactac cagaacgacc gaggcaagca gaccgacct caatcttgac gaccggtgc 14400  
 acaatgacta cagcccgggg gaggcaagca accatcctgc ataccaacat gccaaatgtg aacgagttca 14460  
 actggggcgg cgacctgaaa accatcctgc tgggtgcgcg cttgcctact aaggacaatc 14520  
 tgtttaccaa taagttaag gcgcgggtga tgggtgcgag ctagcgtgcc cgagggcaac tactccgaga 14580  
 aggtggagct gaaatacgag tgggtggagt tcaactgagca ctacttgaaa gtggcgagc 14640  
 ccatgacctg agacctatg aacaacgcga taaagtgtga caccgcgaac ttcagactgg 14700  
 agaacggggt cgtactggt cttgtcatgc ctgggggtata tacaacgaa gccttccatc 14760  
 ggtttgacct tttgtgcca ggatgcgggg tggacttcac ccacagccgc ctgagcaact 14820  
 cagacatcat cgcgaagcgg caacccttcc agggggctt taggatcacc tacgatgatc 14880  
 tgttgggcat taacattccc gcaactgttg atgtggacgc ctaccaggcg agcttgaaag 14940  
 tggaggggtg acaggcggg gccgcggcaa tgcagccggg ggaggacatg aacgatcatg 15000  
 atgacacga caacgcggca gccgcggcaa ctaggagaaa gcgcgctgag gccgaagcag 15060  
 aagagaactc ccattcgcgg cgacacctt gccacacggg ctaggagaaa gaagcctcag aagaaaccgg 15120  
 ccattcgcgg cggccgaagc tgccgcccc gctgcgcaac ctagggtcga

tgatcaaacc	cctgacagag	gacagcaaga	aacgcagtta	caacctaata	agcaatgaca	15240
gcaccttcac	ccagtaccgc	agctggtacc	ttgcatacaa	ctacggcgac	cctcagaccg	15300
gaatccgctc	atggaccctg	ctttgcactc	ctgacgtaac	ctgcggtctg	gagcaggtct	15360
actggtcggt	gccagacatg	atgcaagacc	ccgtgacctt	ccgctccacg	cgccagatca	15420
gcaactttcc	ggtggtgggc	gccgagctgt	tgcccgtgca	ctccaagagc	ttctacaacg	15480
accaggccgt	ctactcccaa	ctcatccgcc	agttttacctc	tctgaccac	gtgttcaatc	15540
gctttcccgga	gaaccagatt	ttggcgcgcc	cgccagcccc	caccatcacc	accgtcagtg	15600
aaaacgttcc	tgctctcaca	gatcacggga	cgctaccgct	gcgcaacagc	atcggaggag	15660
tccagcgagt	gaccattact	gacgccagac	gccgcacctg	cccctacgtt	tacaaggccc	15720
tgggcatagt	ctcgccgcgc	gtcctatcga	gccgcacttt	ttgagcaagc	atgtccatcc	15780
ttatatcgcc	cagcaataac	acaggctggg	gcttgcgctt	ccaagcaag	atgtttggcg	15840
gggccaagaa	gcgctccgac	caacacccag	tgcgctgctg	cgggcactac	cgcgcgccct	15900
ggggcgcgca	caaacgcggc	cgcactgggc	gcaccaccgt	cgatgacgcc	atcgacgcgg	15960
tggttgagga	ggcgcgcaac	tacacgcccc	cgccgccacc	agtgtccaca	gtggacgcgg	16020
ccattcagac	cgtggtgctg	ggagcccgcc	gctatgctaa	aatgaagaga	cgggcgaggc	16080
gcgtagcacg	tcgccaccgc	cgccgaccgc	gcaactgccg	ccaacgcgcg	gcggcgggcc	16140
tgcttaaccg	cgcacgtcgc	accggccgac	ggggcgccat	gcggggcgct	cgaaggcttg	16200
ccgcggttat	tgctactgtg	ccccccaggt	ccaggcgacg	agcgggcgcc	gcagcagccg	16260
cgggcattag	tgctatgact	cagggtcgca	ggggcaacgt	gtattgggtg	cgcgactcgg	16320
ttagcggcct	gcgcgtgccc	gtgcgcaccc	gcccccgcg	caactagatt	gcaagaaaaa	16380
actacttaga	ctcgtactgt	tgtatgtatc	cagcgggcgc	ggcgcgcaac	gaagctatgt	16440
ccaagcgcaa	aatcaaagaa	gagatgctcc	aggtcatcgc	gccggagatc	tatggcccc	16500
cgaagaagga	agagcaggat	tacaagcccc	gaaagctaaa	gcgggtcaaa	aagaaaaaga	16560
aagatgatga	tgatgaactt	gacgacgagg	tgaactgct	gcacgctacc	gcgcccaggc	16620
gacgggtaca	gtggaaaagt	cgacgcgtaa	aacgtgtttt	gcgacccggc	accaccgtag	16680
tctttacgcc	cggtgagcgc	tccaccgcga	cctacaagcg	cgtgtatgat	gaggtgtacg	16740
gcgacgagga	cctgcttgag	caggccaacg	agcgccctcg	ggagtttgcc	tacggaaaagc	16800
ggcataagga	catgctggcg	ttgccgctgg	acgagggcaa	cccaacacct	agcctaaagc	16860
ccgtaacact	gcagcaggtg	ctgcccgcg	ttgcaccgtc	cgaagaaaag	cgcgccctaa	16920
agcgcgagtc	tggtgacttg	gcacccaccg	tgcagctgat	ggtacccaag	cgccagcgac	16980
tggaagatgt	cttggaaaaa	atgaccgtgg	aacctgggct	ggagcccag	gtccgcgtgc	17040
ggccaatcaa	gcaggtggcg	ccgggactgg	gcgtgcagac	cgtggacgtt	catagaccga	17100
ctaccagtag	caccagtatt	gccaccgcca	cagagggcat	ggagacacaa	acgtccccgg	17160
ttgcctcagc	ggtggcggat	gccgcggtgc	agggcggtcg	tgcggcccg	tccaagacct	17220
ctacggaggt	gcaaaccggac	ccgtggatgt	ttcgcgtttc	agcccccg	cgccgcgcgc	17280
gttcgaggaa	gtacggcgcc	gccagcgcg	tactgcccga	atatgcccta	catccttcca	17340
ttgcgcctac	ccccggctat	cgtggctaca	cctaccgccc	cagaagacga	gcaactaccc	17400
gacgcogaac	caccactgga	acccgcgcgc	tcgctgcgcg	tcgccagccc	gtgctggccc	17460
cgatttccgt	gcgcagggtg	gctcgcgaa	gaggcaggac	cctggtgctg	ccaacagcgc	17520
gctaccaccc	cagcatcggt	taaaagccgg	tctttgtggt	tcttgcagat	atggccctca	17580
cctgcccgtc	ccgtttcccg	gtgcccggat	tccgaggaag	aatgcaccgt	aggaggggca	17640
tgcccgccca	cgccctgacg	ggcgccatgc	gtcgtgcgca	ccaccggcgg	cgccgcgcgt	17700
cgacccgtcg	catgcgcggc	ggatccctgc	ccctccttat	tccactgatc	gccgcgcgca	17760
ttggcgccgt	gcccgaatt	gcatccgtgg	ccttgcaggc	gcagagacac	tgattaaaaa	17820
caagttgcat	gtggaataat	caaaaataaa	agtctggact	ctcacgctcg	cttggtcctg	17880
taactatttt	gtagaatgga	agacatcaac	tttgcgtctc	tggcccccg	acacggctcg	17940
cgcccggtta	tgggaaactg	gcaagataat	ggcaccagca	atatgagcgg	tggcgccctc	18000
agctggggct	cgctgtggag	cggcattaaa	aatttcgggt	ccaccgttaa	gaactatggc	18060
agcaaggcct	ggaacagcag	cacaggccag	atgctgaggg	ataagttgaa	agagcaaaat	18120
ttccaacaaa	aggtggtaga	tggcctggcc	tctggcatta	gcggggtggt	ggacctggcc	18180
aaccaggcag	tgcaaaataa	gattaacagt	aagcttgatc	cccgccctcc	cgtagaggag	18240
cctccaccgg	ccgtggagac	agtgtctcca	gagggcgctg	gcgaaaagcg	tccgcgcccc	18300
gacagggaag	aaactctggt	gacgcaaata	gacgagcctc	cctcgtacga	ggaggcacta	18360
aagcaaggcc	tgcccaccac	cgctcccatc	gcgcccattg	ctaccggagt	gctgggcccag	18420
cacacaccgc	taacgctgga	cctgcctccc	cccgccgaca	cccagcagaa	acctgtgctg	18480
ccaggcccga	ccgcccgttg	tgtaacccgt	cctagcccg	cgctccctgc	ccgcgcgcgc	18540
agcggtccgc	gatcgttgcg	gcccgtagcc	agtggaact	ggcaaaagc	actgaacagc	18600
atcggtgggc	tgggggtgca	atccctgaag	gcggcagcat	gcttctgaat	agctaaccgtg	18660
tcgtatgtgt	gtcatgtatg	cgctccatgtc	gccgcccagag	gagctgtgta	gccgcgcgcg	18720
gccccgtttc	caagatggct	accccttcga	tgatgccgca	gtggtcttac	atgcacatct	18780
cgggccagga	cgcctcggag	tacctgagcc	cggggctggt	gcagtttgcc	cgccgccaccg	18840
agacgtactt	cagcctgaat	aacaagttta	gcaaccccac	ggtggcgcc	acgcacagc	18900
tgaccacaga	ccggtcccag	cgtttgacgc	tgcggttcat	ccctgtggac	cgtgaggata	18960
ctgcgtactc	gtacaaggcg	cggttcaccc	tagctgtggg	tgataaccgt	gtgctggaca	19020
tggtttccac	gtactttgac	atccgcggcg	tgctggacag	gggcccctact	tttaagccct	19080
actctggcac	tgccataaac	gccctggctc	ccaagggtgc	cccaaatcct	tgcaatggg	19140



atgaagctgc tactgctctt gaaataaacc tagaagaaga ggacgatgac aacgaagacg 19200  
 aagtagacga gcaagctgag cagcaaaaaa ctcacgtatt tgggcaggcg ccttattctg 19260  
 gtataaatat tacaaaaggag ggtattcaaa taggtgtcga aggtcaaaac cctaaatâtg 19320  
 ccgataaaac atttcaacct gaacctcaaa taggagaatc tcagtggtag gaaactgaaa 19380  
 ttaatcatgc agctgggaga gtccttaaaa agactacccc aatgaaacca tgttacgggt 19440  
 catatgcaaa acccacaat gaaaatggag ggcaaggcat tcttgtaaag caacaaaatg 19500  
 gaaagctaga aagtcaagt gaaatgcaat ttttctcaac tactgaggcg accgcaggca 19560  
 atgggtgataa cttgactcct aaagtggat tgtacagtga agatgtagat atagaaaccc 19620  
 cagacactca tatttcttac atgcccacta ttaaggaagg taactcacga gaactaatgg 19680  
 gccacaatc tatgcccac aggcctaatt acattgcttt tagggacaat tttattggtc 19740  
 taatgtatta caacagcac ggtaatatgg gtgttctggc gggccaagca tcgcagtga 19800  
 atgctgttgt agatttgcaa gacagaaaca cagagcttcc ataccagctt ttgcttgatt 19860  
 ccattgggtga tagaaccagg tacttttcta tgtggaatca ggctgttgac agctatgatc 19920  
 cagatgtagg aattattgaa aatcatggaa ctgaagatga acttccaaat tactgcttcc 19980  
 cactgggagg tgtgattaat acagagactc ttaccaaggt aaaacctaata acaggctcagg 20040  
 aaaatggatg ggaaaaagat gctacagaat tttcagataa aaatgaaata agagttggaa 20100  
 ataattttgc catggaaatc aatctaaatg ccaacctgtg gagaaatttc ctgtactcca 20160  
 acatagcgct gtatttgccc gacaagctaa agtacagtcc ttccaacgta aaaatttctg 20220  
 ataaccctaaa cacctacgac tacatgaaca agcgagtggg ggctcccggg ttagtggact 20280  
 gctacattaa ccttgagca cgctggctcc ttgactatat ggacaacgtc aacctattta 20340  
 accaccaccg caatgctggc ctgctgctacc gctcaatgtt gctgggcaat ggtcgtctatg 20400  
 tgcccttcca catccagggt cctcagaagt tctttgccat taaaaacctc cttctcctgc 20460  
 cgggctcata cacctacgag ttggaacttca ggaaggatgt taacatggtt ctgcagagct 20520  
 ccctagggaaa tgacctaaag gttgacggag ccagcattaa gtttgatagc atttgcttct 20580  
 acgccacctt cttcccatg gccacaaca ccgcctccac gcttgaggcc atgcttagaa 20640  
 acgacaccaa cgaccagtcc tttaacgact atctctccgc cgccaacatg ctctacccta 20700  
 taccgcgcaa cgctaccaac gtgcccatac ccacccctc ccgcaactgg gcggctttcc 20760  
 gcggctgggc cttcacgcgc cttaagacta aggaaacccc atcactgggc tcgggctacg 20820  
 acccttatta cacctactct ggctctatac cctacctaga ttggaacctt tacctcaacc 20880  
 acacctttaa gaagggtggc attacctttg actcttctgt cagctggcct ggcaatgacc 20940  
 gcctgcttac ccccaacgag tttgaaatta agcgtcagc tgacggggag ggttacaacg 21000  
 ttgcccagtg taacatgacc aaagactggg tcttggtaca aatgctagct aactacaaca 21060  
 ttggtctacca gggcttctat atcccagaga gctacaagga ccgcatgtac taactcttta 21120  
 gaaacttcca gccatgagc cgtcagggtg ttgatgatac taaatacaag gactaccaac 21180  
 aggtgggcat cctacaccaa cacaacaact ctggatttgt ttggctacct gccccacca 21240  
 tgccggaagg acaggcctac cctgctaact tcccctatcc gcttataggc aagaccgcag 21300  
 ttgacagcat taccagaaa aagtttcttt gcgacgcac cctttggcgc atccccattc 21360  
 ccagtaactt tatgtccatg ggcgcactca cagacctggg ccaaaacctt ctctacgcca 21420  
 actccgcca cgcgctagac atgacttttg aggtggatcc catggacgag cccaccttc 21480  
 tttatgtttt gtttgaagtc tttgacgtgg tccgtgtgca ccggccgcac cgcggcgta 21540  
 tcgaaaccgt gtacctgcgc acgcccctct cggccggcaa cgccaacaac taaagaagca 21600  
 agcaacatca acaacagctg ccgccatggg ctccagttag caggaaactga aagccattgt 21660  
 caaagatctt ggttgggggc catatttttt gggcacctat gacaagcgct ttccaggctt 21720  
 tgtttctcca cacaagctcg cctgcgccat agtcaatacg gccggtcgcg agactggggg 21780  
 cgtacactgg atggcctttg cctggaaccc gactcaaaa acatgctacc tctttgagcc 21840  
 ctttggtttt tctgaccagc gactcaagca ggtttaccag tttgagtacg agtcaactcc 21900  
 gcgcgtagc gccattgctt cttccccga ccgctgtata acgctggaaa agtccaccca 21960  
 aagcgtacag gggcccaact cggccgctg ttgactattc tgctgcatgt ttctccacgc 22020  
 ctttgccaac tggcccaaaa ctcccatgga tcacaacccc accatgaacc ttattaccgg 22080  
 ggtacccaac tccatgctca acagtcccca ggtacagccc accctgcgtc gcaaccagga 22140  
 acagctctac agcttctctg agcgccactc gccctacttc cgcagccaca gtgcgcagat 22200  
 taggagcgcc acttcttttt gtcacttgaa aaacatgtaa aaataatgta ctagagacac 22260  
 tttcaataaa ggcaaatgct tttatttgta cactctcggg tgattattta cccccacct 22320  
 tgccgtctgc gccgtttaaa aatcaaaggg gttctgcgc gcacgctat gcgccactgg 22380  
 cagggacacg ttgcgatact ggtgtttagt gctccactta aactcaggca caaccatccg 22440  
 cggcagctcg gtgaagtttt cactccacag gctgcgcacc atcaccacag cgttttagcag 22500  
 gtcgggcgcc gatatttgta agtcgcagtt ggggcctccg ccctgcgcgc gcgagttgcg 22560  
 atacacaggg ttgcagcact ggaacactat gacgcgggg tgggtgcacgc tggccagcac 22620  
 gctctgtcg gagatcagat ccgcgtccag gtcctccgcg ttgctcaggg cgaacggagt 22680  
 caactttggg agctgccttc ccaaaaaggg cgctgcacca ggctttgagt tgcactgcga 22740  
 ccgtagtggc atcaaaaggg gaccgtgccc ggtctggggc ttaggataca gcgcctgcat 22800  
 aaaagccttg atctgcttaa aagccacctg accttttgcg ccttcagaga agaacatgcc 22860  
 gcaagacttg ccggaaaact gattggccgg acaggccgcg tcgtgcacgc agcaccttgc 22920  
 gtcgggtgtg gagatctgca ccacatttcc gccccaccgg ttcttcacga tcttggcctt 22980  
 gctagactgc tccttcagcg cgcgctgccc gttttcgctc gtcacatcca tttcaatcac 23040  
 gtgctcctta tttatcataa tgcttccgtg tagacactta agctcgcctt cgatctcagc 23100

gcagcgggtgc agccacaacg cgcagcccgt gggctcgtga tgctttagtag tcacctctgc 23160  
aaacgactgc aggtacgcct gcaggaatcg ccccatcatc gtcacaaagg tcttgttgc 23220  
ggtgaaggtc agctgcaacc cgcggtgctc ctcgttcagc caggtcttgc atacggccgc 23280  
cagagcttcc acttggtcag gcagtagttt gaagttcgcc tttagatcgt tatccacgtg 23340  
gtacttgtcc atcagcgcgc gcgcagcctc catgcccttc tcccacgcag acacgatcgg 23400  
cacactcagc gggttcatca ccgtaatttc actttccgct tcgctgggct cttcctcttc 23460  
ctcttgcgtc cgcataccac gcgccactgg gtcgtcttca ttcagccgcc gcactgtgcg 23520  
cttacctcct ttgccatgct tgattagcac cgggtgggtt ctgaaaccca ccattttag 23580  
cgccacatct tctcttctt cctcgctgtc cacgattacc tctggtgatg gcgggcgctc 23640  
gggcttggga gaaggcgct tcttttctt cttggcgca atggccaaat ccgcccga 23700  
ggtcgatggc cgcgggctgg gtgtgcgcgg caccagcgcg tcttgtgatg agtcttctc 23760  
gtcctcggac tcgataccgc gcctcatccg ctttttggg ggccgccggg gaggcggcg 23820  
cgacggggac ggggacgaca cgtcctccat ggttggggga cgtcgcgcgg caccgcgtcc 23880  
gcgctcgggg gtgttctgc gctgctctc ttcccagctg gccatttct tctcctatag 23940  
gcagaaaaag atcatggagt cagtcgagaa gaaggacagc ctaaccgccc cctctgagtt 24000  
cgccaccacc gcctccaccg atgccgcaa cgcgcctacc acctccccg tcgaggcacc 24060  
cccgtttag gaggaggaag tgattatcga gcaggaccca ggttttgtaa gcgaagacga 24120  
cgaggaccgc tcagtaccaa cagaggataa aaagcaagac caggacaacg cagaggcaaa 24180  
cgaggaacaa atcggtcggg gggacgaaag gcatggcgac tacctagatg tgggagacga 24240  
cgtgctgttg aagcatctgc agcgcagtg cgccattatc tgcgacgcgt tgcaagagcg 24300  
cagcgatgtg cccctcgcca tagcgatgt cagccttgcc tacgaacgcc acctattctc 24360  
accgcgcgta ccccccaaac gccaaagaaa cggcacatgc gagcccaacc cgcgcctcaa 24420  
cttctacccc gtaattgccc tgccagaggt gcttgccacc tatcacatct ttttcaaaa 24480  
ctgcaagata cccctatcct gccgtgcaa cgcgcgcga gcggacaagc agctggcctt 24540  
gcggcagggc gctgtcatc ctgatctgc ctcgctcaac gaagtgcga aaatcttga 24600  
gggtcttggg cgcgacgaga agcgcgcggc aaacgctctg caacaggaaa acagcgaaaa 24660  
tgaaagtac tctggagtgt tgggtgaact cgagggtgac aacgcgcgcc tagccgtact 24720  
aaaacgcaga atcgaggtca cccactttgc ctaccggca cttaacctac ccccaaggt 24780  
catgagcaca gtcagagtgc agctgatcgt cgcgcgtgcg cagccctgg agagggatgc 24840  
aaatttgcaa gaacaaacag aggaggcctt acccgagtt ggcgacgagc agctagcgcg 24900  
ctggcttcaa acgcgcgagc ctgccgactt ggaggagcga cgcaaactaa tgatggccgc 24960  
agtgtcgtt accgtggagc ttgagtgcac gcagcggttc tttgctgacc cggagatgca 25020  
gcgcaagcta gaggaacat tgcactacac ctttcgacag ggctacgtac gccaggcctg 25080  
caagatctcc aacgtggagc tctgcaacct ggtctcctac cttggaattt tgcacgaaa 25140  
ccgccttggg caaacgtgc ttcatccac gctcaagggc gaggcgcgcc gcgactacgt 25200  
ccgcgactgc gtttacttat ttctatgcta cacttgccag acggccatgg gcgttggca 25260  
gcagtgttg gaggagtga acctcaagga gctgcagaaa ctgctaaagc aaaacttgaa 25320  
ggacctatgg acggccttca acgagcgctc cgtggcgcg cacttgccg acatcattt 25380  
ccccgaacgc ctgcttaaaa ccttgcaaca gggctgcca gacttcacca gtcaaagcat 25440  
gttgacgaac tttaggaact ttatcctaga gcgctcagga atcttgccc ccacctgctg 25500  
tgcaacttct agcgactttg tgcccattaa gtaccgcgaa tgccctccgc cgcttgggg 25560  
cactgtctac cttctgcagc tagccaaacta ccttgccctac cactctgaca taatggaaga 25620  
cgtagcgggt cgcggtctac tggagtgtca agctgtctaa cgaaagta attatcggt cctttagct 25680  
ctcctggtt tgcaattcgc agctgtctaa ggcctcggg ttgaaactca ctccggggct 25740  
gcagggtccc tcgcctgacg aaaagtcgc ggcctcggg tggaaactca ctccggggct 25800  
gtggacgtcg gcttaccttc gcaaatgtgt acctgaggac taccacgccc acgagattag 25860  
gttctacgaa gaccaatccc gcccgccaaa tgcggagctt accgctcgcg tcattacca 25920  
gggccacatt cttggccaat tgcaagccat caacaaagcc cgccaagagt ttctgtacg 25980  
aaaggagcgg ggggtttact tggaccccca gtccggcgag gagctcaacc caatcccccc 26040  
gccgcgcgag ccctatcagc agcagccgcg ggcccttgc tcccaggatg gcacccaaaa 26100  
agaagctgca gctgccgcgg ccacccacgg acgaggagga atactgggac agtcaggcag 26160  
aggaggtttt ggacgaggag gaggaggaac tgatggaaga ctgggagagc ctgacgagg 26220  
aagcttccga ggtcgaagag gtgtcagacg aaacaccgtc accctcggtc gattccct 26280  
cgccggcgcc ccagaaatcg gcaaccggtt ccagcatggc tacaacctcc gctcctcagg 26340  
cgccggcgcc actgccgtt cgccgaccca accgtatag ggacaccact ggaaccagg 26400  
cggtaagtc caagcagccg ccgcccgttag cccaagagca acaacagcg caaggctacc 26460  
gctcatggcg cgggcacaag aacgccatag ttgcttgcct gcaagactgt gggggcaac 26520  
tctccttcgc ccgcccgtt cttctctacc atcacggcg ggccttccc cgtaacatcc 26580  
tgcaattacta ccgtcatctc tacagcccat actgcaccgg cggcagcgcc agcggcagca 26640  
acagcagcgg ccacacagaa gcaagggcga ccgcatagca agactctgac aaagcccaag 26700  
aatccacag cggcggcagc agcaggagga ggagcgctg gtctggcgcc caacgaaccc 26760  
gtatcgaccc cgcagcttag aaacagatt ttcccactc tgtatgctat atttcaacg 26820  
agcagggggc aagaacaaga gctgaaaata aaaaacaggt ctctgcgac cctcaccgc 26880  
agctgcctgt atcacaaaag cgaagatcag cttcggcgca cgctggaaga cgcggaggct 26940  
ctcttcagta aatactgcgc gctgactctt aaggactagt ttcgcgcct ttctcaaat 27000  
taagcgcgaa aactacgtca tctccagcgg ccacaccgg cgccagcacc tgtcgtcagc 27060

```

gccattatga gcaaggaaat tcccacgccc tacatgtgga gttaccagcc acaaatggga 27120
cttgccggtg gagctgcccc agactactca acccgaaataa actacatgag cgccgggaccc 27180
cacatgatat cccgggtcaa cggaatccgc gccaccgaa accgaattct cttggaacag 27240
gcggtcatta ccaccacacc tcgtaataac cttaatcccc gtagttggcc cgctgccctg 27300
gtgtaccagg aaagtcccg cccaccact gtggtacttc ccagagacgc ccaggccgaa 27360
gttcagatga ctaactcagg ggcgcagctt gcggggcggt ttcgtcacag ggtgcggtcg 27420
cccgggcagg gtataactca cctgacaatc agagggcgag gtattcagct caacgacgag 27480
tcggtgagct cctcgcttgg tctccgtccg gacgggacat ttcagatcgg cggcgcgggc 27540
cgctcctcat tcacgcctcg tcaggcaatc ctaactctgc agacctcgtc ctctgagccg 27600
cgctctggag gcattggaac tctgcaatth attgaggagt ttgtgccatc ggtctacttt 27660
aaccctctct cgggacctcc cggccactat ccgatcaat ttattcctaa ctttgacgcg 27720
gtaaaggact cggcgagcgg ctacgactga atgttaagtg gagaggcaga gcaactgcgc 27780
ctgaaacacc tgggtccactg tcgccgccac aagtgttttg cccgcgactc cggtgagttt 27840
tgctactttg aattgcccg ggcacatata gaggggccgg cgcacggcgt ccggcttacc 27900
gcccaggagg agcttgcccg tagcctgatt cgggagttta cccagcgccc cctgctagtt 27960
gagcgggaca ggggaccctg tgttctcact gtgatttgca actgtcctaa ccttgatta 28020
catcaagatc tttgttgcca tctctgtgct gagtataata aatacagaaa taaaatata 28080
ctggggctcc tatcgccatc ctgtaaagcg caccgtcttc acccgcccaa gcaaaccaag 28140
cgcaacctta cctggtactt ttaacatctc tccctctgtg atttacaaca gtttcaacct 28200
agacggagtg agtctacgag agaacctctc cgagctcagc tactccatca gaaaaaacac 28260
caccctcctt acctgccggg aacgtacgag tgcgtcaccg gccgtgcac cacacctacc 28320
gcctgaccgt aaaccagact ttttccggac agacctcaat aactctgttt accagaacag 28380
gaggtgagct tagaaaaccc ttagggtatt aggccaaagg cgcagctact gtggggttta 28440
tgaacaattc aagcaactct acgggctatt ctaattcagg tttctctagg gtggggttta 28500
ttctctgtct tgtgattctc tttattctta tactaacgct tctctgccta aggctcgccg 28560
cctgctgtgt gcacatttgc atttattgtc agctttttta acgctggggt cgccacccaa 28620
gatgattagg tacataatcc taggtttact cacccttgcg tcagcccacg gtacttaatt 28680
aaccctaaag gtggatttta aggagccagc ctgtaatggt acattcgag ctgaagctaa 28740
tgagtgcacc actcttataa aatgcaccac agaacatgaa aagctgctta ttcgcccaa 28800
aaacaaaatt ggcaagtatg ctgtttatgc tatttggcag ccaggtgaca ctacagagta 28860
taatgttaca gttttccagg gtaaaagtca taaaactttt atgtataact ttccatttta 28920
tgaaatgtgc gacattacca tgtacatgag caaacagtat aagttgtggc ccccaaaaa 28980
ttgtgtggaa aacactggca ctttctgtcg cactgctatg ctaattacag tgctcgcttt 29040
ggtctgtacc ctactctata ttaaatacaa aagcagacgc agctttattg agggaaagaa 29100
aatgccttaa tttactaagt tacaagcta atgtcaccac taactgcttt actcgtctgt 29160
tgcaaaacaa attcaaaaag tttagcattat aattagaata ggatttaaac ccccggtca 29220
tttctgtctc aataaccattc ccctgaacaa ttgactctat gtgggatatg ctccagcgct 29280
acaaccttga agtcaggctt cctggatgtc agcatctgac tttggccagc acctgtcccg 29340
cgaatttggc ccagtcacac tacagcgacc caccctaaca gagatgacca acacaacca 29400
cgcgcccgcc gctaccggac ttacatctac cacaataaca cccaagttt ctgcctttgt 29460
caataactgg gataacttgg gcatgtggtg gttctccata gcgcttatgt ttgtatgcct 29520
tattattatg ttgctcatct gctgcctaaa gcgcaaagcg gcccgaccac ccatctatag 29580
tccatcatgt gtgctacacc caaacaatga tggaaatccat agattggagc gactgaaaca 29640
catgttcttt tctcttacag tatgattaaa tgagacatga ttctctgagt ttttatatta 29700
ctgacccttg ttgcgctttt ttgtgcgtgc tccacattgg ctgcggtttc tcacatcgaa 29760
gtagactgca ttccagcctt cacagtctat ttgctttacg gatttgctac cctcacgctc 29820
atctgcagcc tcatcactgt ggtcatcgcc tttatccagt gcattgactg ggtctgtgtg 29880
cgctttgcat atctcagctg ctgccatggt gtgttgctac catgttggtt tcatgtgtgt 29940
ctgccatgct cttgtgcctt tagatctctc tttatgtagt gttgtggtgt ctctctgtgc 30000
gtgatgtgtg tttgtccta tatattttta ttttaatcc aaacctctgt ccccgagag 30060
gcctttgcgt tctggtaggc cgtcattgaa aactgactta actcgtaaa ttaaaaaaat 30120
gtaaaaaata atggttgaga ctacgcccac catcggcaga tgaggtggat tgagactcag 30180
cccaacatcg gcagatgagg tggattgaga ctcaacccca acattggcag atgaggtgaa 30240
ttagatgagg tggattgaga ctcatgaggg tggatgagg gcccgacgtc cacaggtggg 30300
agttgtgctt tacagtccaa cgtgcaggac gcttggcatt tgccagagaa caccaagatt 30360
ggcaaattcg caactggcgc cctgtgctct tcacagacgg aaaaatgacc aaaatctgat 30420
tatttttcta aaacggaaac cgaatgtccg acaaaagtca tttgatgact tcccggtagg 30480
tctgccctcg cgctgggccg acgctgtccg ggaattttac aaacgatttc ggagctctag 30540
cattcactca ccttgtcaag gacctgagga tctctgcacc cttattaaga ccctgtgcgg 30600
tctcaaagat cttattccct ttaactaata aaaaaaata ataaagcatc acttacttaa 30660
aatcagttag caaatttctg tccagtttat tcagcagcac ctcttgccc tcctcccagc 30720
tctggtattg cagcttccct acttctcca caatctaaat ggaatgtcag 30780
ttctctctcg tctctgtcca tccgaccca ctatcttcat gttgttgag atgaagcgcg 30840
caagaccgtc tgaagatacc ttcaaccccg tgtatccata tgacacggaa accggtcctc 30900
caactgtgcc ttttcttact cctcccttg tatccccc aa tgggtttcaa gaggtcccc 30960
ctgggggtact ctctttgcgc ctatccgaac ctctagttac ctccaatggc atgcttgccg 31020

```

tcaaaatggg caacggcctc tctctggacg aggcgggcaa ccttacctcc caaaatgtaa 31080  
ccactgtgag cccacctctc aaaaaaacca agtcaaacat aaacctggaa atatctgcac 31140  
ccctcacagt tacctcagaa gccctaactg tggctgccgc cgcacctcta atggctcgcg 31200  
gcaacacact caccatgcaa tcacaggccc cgctaaccgt gcacgactcc aaacttagca 31260  
ttgccacca aggacccctc acagtgtcag aaggaaagct agccctgcaa acatcaggcc 31320  
ccctcaccac caccgatagc agtaccctta ctatcactgc ctacccccct ctaactactg 31380  
ccactggtag cttgggcatt gacttgaaa agccattta tacacaaaat ggaaaactag 31440  
gactaaagta cggggctcct ttgcatgtaa cagacgacct aaacactttg accgtagcaa 31500  
ctgggtccagg tgtgactatt aataatactt ccttgcaaac taaagtact ggagccttgg 31560  
gttttgattc acaaggcaat atgcaactta atgtagcagg aggactaagg attgattctc 31620  
aaaacagacg ccttatactt gatgttagtt atccgtttga tgcataaac caactaaatc 31680  
taagactagg acagggccct ctttttataa actcagccca caacttggat attaaactaca 31740  
acaaaggcct ttacttgttt acagcttcaa acaattccaa aaagcttgag gttaacctaa 31800  
gcaactgcaa ggggttgatg tttgacgcta cagccatagc caaaacaaaa attggccatg 31860  
ttgaatttgg ttcaccta atgaccaaaca caaatccctt aggaactggc cttagttttg 31920  
gcctagaatt tgattcaaac aaggctatgg ttcctaaact aggaactggc cttagttttg 31980  
acagcacagg tgccattaca gtaggaaaca aaaataatga taagctaact ttgtggacca 32040  
caccagctcc atctcctaac tgtagactaa atgcagagaa agatgctaaa ctcacttttg 32100  
tcttaacaaa atgtggcagt caaatacttg ctacagtttc agttttggct gttaaaggca 32160  
gtttggctcc aataatctgga acagttcaaa gtgctcatct tattataaga tttgacgaaa 32220  
atggagtgtc actaaacaat tcttctctgg acccagaata ttggaacttt agaaatggag 32280  
atcttactga aggcacagcc tatacaaacg ctgttggatt tatgcctaac ctatcagctt 32340  
atccaaaatc tcacggtaaa actgcaaaaa gtaacattgt cagtcaagtt tacttaaacg 32400  
gagacaaaaa taaacctgta aactaaccac ttacactaaa cggtagacag gaaacaggag 32460  
acacaactcc aagtgcatac tctatgtcat tttcatggga ctggtctggc cacaactaca 32520  
ttaatgaaat atttgccaca tctcttaca ctttttcata cattgcccac gaataaagaa 32580  
tcgtttgtgt tatgtttcaa cgtgtttatt tttcaattgc agaaaatttc aagtcatttt 32640  
tcattcagta gtatagcccc accaccacat agcttataca gatcacgta ccttaatcaa 32700  
actcacgaaa ccctagtatt caacctgcca cctccctccc aacacacaga gtacacagtc 32760  
ctttctcccc ggctggcctt aaaaagcctc atatcatggg taacagacat attcttaggt 32820  
gttatattcc acacggtttc ctgtcgagcc aaacgctcat cagtgtatatt aataaactcc 32880  
ccgggcagct cacttaagtt catgtcgtgt tccagctgct gagccacagg ctgctgtcca 32940  
acttgccggt gcttaacggg cggcgaagga gaagtccacg cctacatggg ggtagagtca 33000  
taatcgtgca tcaggatagg gcggtggtgc tgcagcagcg cgcgaataaa ctgctgccgc 33060  
cgccgctccg tctgcagga atacaacatg gcagtggtct cctcagcgat gattcgccac 33120  
gcccgcagca taaggcgcct tgtcctccgg gcacagcagc gcacctgat ctcacttaaa 33180  
tcagcacagt aactgcagca cagcaccaca atattgttca aaatcccaca gtgcaaggcg 33240  
ctgtatccaa agctcatggc ggggaccaca gaacccacgt ggccatcata ccacaagcgc 33300  
aggtagatta agtggcgacc cctcataaac acgctggaca taaacattac ctcttttggc 33360  
atgttgtaat tcaccacctc ccggtaccat ataaacctct gattaaacat ggcgccatcc 33420  
accaccatcc taaaccagct ggccaaaacc tgcccgcgg ctatacactg cagggaaccg 33480  
ggactggaac aatgacagtg gagagcccag gactcgtaac catggatcat catgctcgtc 33540  
atgatataca tgttggcaca acacaggcac acgtgcatac acttccctcag gattacaagc 33600  
tcttcccgcg ttagaacct atcccaggga acaaccatt cctgaatcag cgtaaatccc 33660  
acactgcagg gaagacctcg cacgtaactc acgttgtgca ttgtcaaagt gttacattcg 33720  
ggcagcagcg gatgatcctc cagtatggta gcgcggttt ctgtctcaaa aggaggtaga 33780  
cgatccctac tgtacggagt gcgcccagac aaccgagatc gtgttggtcg tagtgtcatg 33840  
ccaaatggaa cgccggacgt agtcatattt cctgaagcaa aaccaggtgc gggcgtgaca 33900  
aacagatctg cgtctccggt ctgcgcgctt agatcgctct gtgtagtagt tgtagtatat 33960  
ccactctctc aaagcatcca ggcccccctt ggcttcgggt tctatgtaaa ctccttcatg 34020  
cgccgctgcc ctgataacat ccaccaccgc agaataagcc acaccagcc aacctacaca 34080  
ttcgttctgc gactcacaca cgggaggagc gggaagagct ggaagaacca tgtttttttt 34140  
tttattccaa aagattatcc aaaacctcaa aatgaagatc tattaagtga acgcgctccc 34200  
ctccggtggc gtggtcaaac tctacagcca aagaacagat aatggcattt gtaagatgtt 34260  
gcacaatggc ttccaaaagg caaacggccc tcacgtccaa gtggacgtaa aggctaaacc 34320  
cttcagggtg aatctcctct ataaacattc cagcaccttc aacctatgcc aaataattct 34380  
catctcgcca cttctcaat atatctctaa gcaaatcccg aatattaagt ccggccattg 34440  
taaaaaatctg ctccagagcg ccctccacct tcagcctcaa gcagcgaatc atgattgcaa 34500  
aaattcaggt tctcacaga cctgtataag attcaaaagc ggaacattaa caaaaaatcc 34560  
gcatcccggt aggtcccttc gcagggccag ctgaacataa tctgtcaggt ctgcacggac 34620  
cagcgcggcc acttccccgc caggaacctt gacaaaagaa cccacactga ttatgacagc 34680  
catactcgga gctatgctaa ccagcgtagc cccgatgtaa gctttgttgc atgggcccgc 34740  
atataaaatg caaggtgctg ctcaaaaaat caggcaaaagc ctgcgcgcaa aaagaaagca 34800  
catcgtagtc atgctcatgc agataaaggc aggttaagctc cggaaccacc acagaaaaag 34860  
acaccatttt tctctcaaac atgtctgcgg gtttctgcat aaacacaaaa taaaataaca 34920  
aaaaaacatt taaacattag aagcctgtct tacaacagga aaaacaacc ttataagcat 34980

```

aagacggact acggccatgc cggcgtgacc gtaaaaaaac tggtcaccgt gattaaaaag 35040
caccaccgac agctcctcgg tcatgtccgg agtcataatg taagactcgg taaacacatc 35100
aggttgattc atcggtcagt gctaaaaaag gaccgaaata gcccggggga atacataccc 35160
gcaggcgtag agacaacatt acagccccc aacacacata aacacacata ataggagaga 35220
aaaacacata aacacctgaa aaacctcct gctaggcaa aatagcacc tcccgctcca 35280
gaacaacata cagcgcttca cagcggcagc ctaacagtca gccttaccag taaaaaagaa 35340
aacctattaa aaaaacacca ctgcacacgg caccagctca atcagtcaca gtgtaaaaaa 35400
gggccaagtg cagagcgagt atatattagga ctaaaaaatg acgtaacggg taaagtccac 35460
aaaaaacacc cagaaaaccg cagcgaaccc tacgcccaga aacgaaagcc aaaaaaccca 35520
caacttcctc aaatcgtcac ttccgttttc ccacgttacg taacttccca ttttaagaaa 35580
actacaattc ccaacacata caagttactc cgccctaaaa cctacgtcac ccgccccgtt 35640
cccacgcccc gcgccacgtc acaaactcca cccctcatt atcatattgg cttcaatcca 35700
aaataaggta tattattgat gatg 35724

```

<210> 14

<211> 33988

<212> DNA

<213> Adenovirus subgroup C

<400> 14

```

catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60
ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagtagtgtg gcggaagtgt 120
gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgtttttg 180
gtgtgcgcgg gtgtacacag gaagtgaaca ttttcgcgcg gttttaggcg gatgtttag 240
taaatattgg cgtaaccgag taagatttgg ccattttcgc gggaaaactg aataagagga 300
agtgaatctc gaataatttt gtgttactca tagcgcgtaa tatttgtcta gggccgcggg 360
gactttgacc gtttacgtgg agactcgccc aggtgttttt ctcaggtgtt ttccgcgttc 420
cgggtcaaag ttggcggtttt attattatag tcagctgacg tgtagtgtat ttatacccg 480
tgagttcctc aagagggcac tcttgagtg cagcgagtag agttttctcc tccgagccgc 540
tccgacaccg ggactgaaaa tgagacatga ggtactggct gataatcttc cactccttag 600
ccattttgaa ccacctaccc ttcacgaact gtatgattta gacgtgacgg ccccggaaga 660
tcccaacgag gaggcggttt cgcagatttt tcccgactct gtaatgttgg cgtgacagga 720
agggattgac ttactcactt ttccgcggcg gcccggttct ccggagccgc ctacactttc 780
ccggcagccc gagcagccgg agcagagagc cttgggtccg gtttgccacg aggctggcct 840
tccaccagtg gacgacgagg atgaagaggg tgaggagttt gtgttagatt atgtggagca 900
ccccgggcac ggttgacggt cttgtcatta tcaccggagg aatacggggg acccagatat 960
tatgtgttcg ctttgctata tgaggacctg tggcatgttt gtctacagta agtgaaaaatt 1020
atgggcagtg ggtgatatag ttgtgggttt ggtgtggtaa tttttttttt aattttttaca 1080
gttttgtggt tttaagaatt ttgtattgtg atttttttta aaggtcctgt gtctgaacct 1140
gagcctgagc ccgagccaga accggagcct gcaagacctc cccgcggtcc taaaatggcg 1200
cctgctatcc tgagacgccc gacatcacct gtgtctagag aatgcaatag tagtacggat 1260
agctgtgact ccggtccttc taacacacct cctgagatac acccggtggt cccgctgtgc 1320
cccattaaac cagttgcggt gagagttggt gggcgtcgcc aggtgtgga atgtatcgag 1380
gacttgctta acgagcctgg gcaacctttg gacttgagct gtaaacgccc caggccataa 1440
ggtgtaaacc tgtgattgag tgtgtggtta acgcttttgt ttgctgaatg agttgatgta 1500
agttaataaa aggttgagat aatgtttaac ttgcatggcg tgttaaatgg ggcggggcct 1560
aaagggtata taatgcgcgg tgggctaacc ttggttacat ctgacctcat ggagccttgg 1620
gagtgtttgg aagatttttc tgctgtgcgt aacttgctgg aacagagctc taacagtacc 1680
tcttgggttt ggaggtttct gtggggctca tcccaggcaa agttagtctg cagaattaa 1740
gaggattaca agtggaatt tgaagagctt ttgaaatcct gtggtgagct gtttgattct 1800
ttgaatctgg gtcaccaggc gcttttccaa gagaaggtea tcaagacttt ggatttttcc 1860
acaccggggc gcgctgcggc tgctgttgct tttttgagtt ttataaagga taaatggagc 1920
gaagaaaccc atctgagcgg ggggtacctg ctggattttc tggccatgca tctgtggaga 1980
gcggttgtag gacacaagaa tcgctgcta ctgttgctt ccgtccgccc ggcgataata 2040
ccgacggagg agcagcagca gcagcaggag gaagccaggc ggccggcgga ggagcagagc 2100
ccatggaacc cgagagccgg cctggacctt cggaatgaa tgttgtagag gtggctgaac 2160
tgtatccaga actgagacgc attttgacaa ttacagagga tgggcagggg ctaaaagggg 2220
taaaagggga gcggggggct tgtgaggcta cagaggaggc taggaatcta gcttttagct 2280
taatgaccag acaccgtcct gagtgtatta cttttcaaca gatcaaggat aattgcgcta 2340
atgagcttga tctgctggcg cagaagtatt ccataagaca gctgaccact tactggctgc 2400
agccagggga tgattttgag gaggtatata gggatatatg aaagtgggca cttaggccag 2460
attgcaagta caagatcagc aaacttgtaa atatcaggaa ttgttgctac atttctggga 2520
acggggccga ggtggagata gatacggagg atagggtggc ctttagatgt agcatgataa 2580
atatgtggcc ggggggtgctt ggcattggag ggggtggttat tatgaatgta aggtttactg 2640
gccccaattd tagcggtagc gttttcctgg ccaataccaa ccttatccta cacggtgtaa 2700
gcttctatgg gtttaacaat acctgtgtgg aagcctggac cgatgtaagg gttcggggct 2760

```

gtgcctttta ctgctgctgg aagggggtgg tgtgtcgccc caaaagcagg gcttcaatta 2820  
 agaaatgcct ctttgaaagg tgtaccttgg gtatcctgtc tgagggtaac tccagggtgc 2880  
 gccacaatgt ggcctccgac tgtggttgct tcatgctagt gaaaagcgtg gctgtgatta 2940  
 agcataacat ggtagtgggc aactgcgagg acagggcctc tcagatgctg acctgctcgg 3000  
 acggcaactg tcacctgctg aagaccattc acgtagccag ccactctcgc aaggcctggc 3060  
 cagtgtttga gcataacata ctgacccgct gttccttgca tttgggtaac aggagggggg 3120  
 tgttctacc ttaccaatgc aatttgagtc aactaagat attgcttgag cccgagagca 3180  
 tgtccaaggt gaacctgaac ggggtgtttg acatgacat gaagatctgg aaggtgctga 3240  
 ggtacgatga gacccgcacc aggtgcagac cctgcgagtg tggcggtaaa catattagga 3300  
 accagcctgt gatgctggat gtgaccgagg agctgaggcc cgatcacttg gtgctggcct 3360  
 gcacccgcgc tgagtttggc tctagcgatg aagatacaga ttgaggtact gaaatgtgtg 3420  
 ggcgtggcct aaggggtgga aagaatata aaggtggggg tcttatgtag ttttgtatct 3480  
 gttttgcagc agccgccgcc gccatgagca ccaactcgtt tgatggaagc attgtgagct 3540  
 catatttgac aacgcgcatt ccccatggg cgggggtgcg tcagaatgtg atgggctcca 3600  
 gcattgatgg tcgcccgcgc ctgcccgcga actctactac cttgacctac gagaccgtgt 3660  
 ctggaacgcc gttggagact gcagcctccg ccgcccgttc agccgctgca gccaccgcc 3720  
 gcgggattgt gactgacttt gctttcctga gcccgcttgc aagcagtgc gcttcccgtt 3780  
 catccgccgc cgatgacaag ttgacggctc ttttggcaca attggattct ttgaccggg 3840  
 aacttaatgt cgtttctcag cagctgttgg atctgcgcca gcaggtttct gccctgaagg 3900  
 ctctctcccc tcccaatgcg gtttaaaaca taaataaaaa accagactct gtttggattt 3960  
 ggatcaagca agtgtcttgc tgtctttatt taggggtttt gcgcgcgcgg taggccggg 4020  
 accagcggtc tcggctcgtt agggctcctgt gtatttttcc caggacgtgg taaagggtgac 4080  
 tctggatggt cagatacatg ggcataagcc cgtctctggg gtggaggtag caccactgca 4140  
 gagcttcatg ctgcgggggt gtgtttaga tgatccagtc gtagcaggag cgctggcgt 4200  
 ggtgcctaaa aatgtcttcc agtagcaagc tgattgccag gggcaggccc ttgggtgaag 4260  
 tgtttacaaa gcggttaagc tgggatgggt gcatacgtg ggatatgaga tgcattctgg 4320  
 actgtatttt taggttggct atgttcccag ccatatccct ccggggattc atgttgtgca 4380  
 gaaccaccag cacagtgtat ccggtgcact tgggaaattt gtcattgtagc ttagaaggaa 4440  
 atgcgtggaa gaacttggag acgcccttgt gacctccaag attttccatg cattcgtcca 4500  
 taatgatggc aatgggccca cggggcggcg cctggggcga gatatttctg ggatcactaa 4560  
 cgtcatagtt gtgttccagg atgagatcgt cataggccat ttttacaagg cgcgggcgga 4620  
 gggtgccaga ctgcgggtata atgtttccat ccggcccagg ggcgtagtta ccctcacaga 4680  
 ttgcatcttc ccacgctttg agttcagatg gggggatcat gtctacctgc ggggcgatga 4740  
 agaaaacggt ttccggggta ggggagatca gctgggaaga aagcagggtc ctgagcagct 4800  
 gcgacttacc gcagccgggt ggcccgtaaa tcacacctat taccgggtgc aactggtagt 4860  
 taagagagct gcagctgccg tcacctctga gcaggggggc cacttcgtta agcatgtccc 4920  
 tgactcgcat gttttccctg accaaatccg ccagaaggcg ctcgcgcgcc agcgatagca 4980  
 gttcttgcaa ggaagcaaag tttttcaacg gtttgagacc gtccgcgta ggcattgctt 5040  
 tgagcgtttg accaagcagt tccaggcggt ccacagctc ggtcacctgc tctacggcat 5100  
 ctcgatccag catatctcct cgtttcgcgg gttggggcgg ctttcgctgt acggcagtag 5160  
 tcgggtgctc tccagacggg ccagggtcat gtctttccac gggcgagggt tctcgtcag 5220  
 cgtagtctgg gtcacgggtg aggggtgcgc tccgggctgc gcgctggcca ggtgagctt 5280  
 gaggtggtc ctgctggtgc tgaagcgctg ccggtcttcg cctgcgcgt cgccaggta 5340  
 gcatttgacc atggtgtcat agtccagccc ctccgcggcg tggcccttg cgcgagctt 5400  
 gcccttgagg gaggcggcgc acgaggggca gtgcagact ttgagggcgt agagcttggg 5460  
 cgcgagaaat accgattccg gggagtaggc atccgcgcg caggccccgc agacgggtct 5520  
 gcattccacg agccagggtg gctctggccg ttcgggtgca catgagccgg tgtccacgt 5580  
 ctttttgatg cgtttcttac ctctggttcc catgagccgg tctcagagcg gtgtcccg 5640  
 aaggctgtcc gtgtcccggt atacagactt gagagccctg tctcagagcg aggccagcac 5700  
 gtcctcctcg tatagaaact cggaccactc tgagacaaa gctcgcgtcc aggcagcac 5760  
 gaaggaggct aagtgaggag ggtagcggtc gttgtccact agggggtcca ctgcgtccag 5820  
 ggtgtgaaga cacatgtcgc cctcttcggc atcaaggaa gtgattggtt tgtagggtga 5880  
 ggccacgtga ccgggtgttc ctgaaggggg gctataaaag ggggtggggg cgcttctgc 5940  
 ctactctct tccgcatcgc tgtctgcgag ggccagctgt tgggggtgag actccctctg 6000  
 aaaagcgggc atgacttctg cgctaagatt gtcagtttcc aaaaacgagg aggatttgat 6060  
 attcacctgg ccgcgggtga tgcctttgag ggtggccgca tccatctggt cagaaaagac 6120  
 aatctttttg ttgtcaagct tgggtggaaa gcacccgtag agggcggttg acagcaactt 6180  
 ggcatggag cgcagggtt ggtttttgtc gcgcatcgcg cgctccttgg ccgcgaggtt 6240  
 tagctgcacg tattcgcgcg caacgcaccg ccattcggga aagacggtgg tgcgctcgtc 6300  
 gggcaccagg tgcacgcgcc aaccgcggt gtgcagggtg acaaggtcaa cgctggtggc 6360  
 tacctctccg cgtaggcgct cgttgggtcca gcagaggcg ccgcccttgc gcgagcagaa 6420  
 tggcggtagg ggtctagct gcgtctcgtc cgggggtct gcgtccacg taaagacccc 6480  
 gggcagcagg cgcgcgtcga agtagtctat cttgcattct tgcaagtcta gcgcctgctg 6540  
 ccatgcgcgg gcggcaagcg cgcgctcgta tgggttagt gggggacccc atggcatggg 6600  
 gtgggtgagc gcggaggcgt acatgccgca aatgtcgtaa acgtagagg gctctctgag 6660  
 tattccaaga tatgtagggt agcatcttcc accgcggatg ctggcgcgca cgtaatcgta 6720

tagttcgtgc	gagggagcga	ggaggtcggg	accgaggttg	ctacgggagg	gctgctctgc	6780
tcggaagact	atctgcctga	agatggcatg	tgagttggat	gatatgggtg	gacgctggaa	6840
gacgttgaag	ctggcgtctg	tgagacctac	cgcgtcacgc	acgaaggagg	cgtaggagtc	6900
gcgcagcttg	ttgaccagct	cggcggtgac	ctgcacgtct	agggcgagct	agtccagggg	6960
ttccttgatg	atgtcatact	tatcctgtcc	cttttttttc	cacagctcgc	ggttgaggac	7020
aaactcttcg	cggctcttcc	agtactcttg	gatcggaaac	ccgtcggcct	ccgaacggta	7080
agagcctagc	atgtagaact	ggttgacggc	ctggtaggcg	cagcatccct	tttctacggg	7140
tagcgcgtat	gcctgcgcgg	ccttcgcggg	cgaggtgtgg	gtgagcgcaa	aggtgtccct	7200
gaccatgact	ttgaggtact	ggtatttgaa	gtcagtgtcg	tcgcacccgc	cctgctccca	7260
gagcaaaaag	tccgtgcgct	ttttggaacg	cggatttggc	agggcgaaag	tgacatcggt	7320
gaagagtatc	tttcccgccg	gaggcataaa	gttgctgtgt	atgcggaagg	gtcccggcac	7380
ctcggaacgg	ttgttaatta	cctggggcgg	gagcacgacg	tcgtcaaaag	cgttgatgtt	7440
gtggcccaca	atgtaaagtt	ccaagaagcg	cgggatgccc	ttgatggaag	gcaatttttt	7500
aagttcctcg	taggtgagct	cttcaggggg	gctgagcccg	tgctctgaaa	gggcccagtc	7560
tgcaagatga	gggttggaag	cgacgaatga	gctccacagg	tcacggggcca	ttagcatttg	7620
caggtggctg	cgaaagggtc	taaactggcg	acctatggcc	attttttctg	gggtgatgca	7680
gtagaaggta	agcgggtctt	gttcccagcg	gtcccaccca	aggttcgcgg	ctaggtctcg	7740
cgcggcagtc	actagaggct	catctccgcc	gaacttcatg	accagcatga	agggcacgag	7800
ctgcttccca	aaggccccca	tccaagtata	ggtctctaca	tcgtaggtga	caaagagacg	7860
ctcgggtcga	ggatgcgagc	cgatcgggaa	gaactggatc	tcccgcaccc	aattggagga	7920
gtggctattg	atgtggtgaa	agtagaagtc	cctgcgacgg	gccgaacact	cgtagctggc	7980
tttgtaaaaa	cgtgcgcagc	actggcagcg	gtgcacgggc	tgtagatcct	gcacgaggtt	8040
gacctgacga	ccgcgcacaa	ggaagcagag	tgggaatttg	agccccctcg	ctggcgggtt	8100
ttggtgggtg	tcttctactt	cggctgcttg	tccttgaccg	tctggctgct	cgaggggagt	8160
tacggtggat	cggaccacca	cgccgcgcga	gccccaaagtc	cagatgtccg	cgcgcgccgg	8220
tcggagcttg	atgacaacat	cgcgacagatg	ggagctgtcc	atggtctgga	gctcccgcgg	8280
cgtaggttca	ggcggggagc	cctgcaggtt	tacctcgcat	agacgggtca	gggcgcgggc	8340
tagatccagg	tgatacctaa	tttccagggg	ctgggttggtg	gcggcgctga	tggcttgcaa	8400
gaggccgcat	ccccgcggcg	cgactacggt	accgcgcggc	gggcgggtgg	ccgcgggggt	8460
gtccttggat	gatgcatcta	aaagcgggtg	cgcgggcgag	cccccgaggg	tagggggggc	8520
tccggacccg	ccgggagagg	gggcaggggc	acgtcggcgc	cgcgcgccgg	caggagctgg	8580
tgctgcgcgc	gtaggttgct	ggcgaacgcg	acgacgcggc	ggttgatctc	ctgaatctgg	8640
cgctctctcg	tgaagacgac	gggcccgggtg	agcttgagcc	tgaagagag	ttcgacagaa	8700
tcaatttcgg	gtcgttgac	ggcgccctgg	cgcaaaatct	cctgcacgtc	tcctgagttg	8760
tcttgatagg	cgatctcggc	catgaactgc	tcgatctctt	cctcctggag	atctccgcgt	8820
ccggctcgct	ccacggtggc	ggcgaggtcg	ttggaaatgc	gggccatgag	ctgcgagaag	8880
gcgttgaggc	ctccctcggt	ccagacgcgg	ctgtagacca	cgcccccttc	ggcatcgcg	8940
gcgcgcagta	ccacctgcgc	gagattgagc	tccacgtgcc	ggcggaagac	ggcgtagttt	9000
cgcaggcgct	gaaagaggta	gttgagggtg	gtggcggtgt	gttctgccac	gaagaagtac	9060
ataaccacgc	gtcgcaacgt	ggattcgttg	atatccccc	aggcctcaag	gcgctccatg	9120
gcctcgtaga	agtccacggc	gaagttgaaa	aactgggagt	tgcgcgccga	cacgggttaac	9180
tcctctccca	gaagacggat	gagctcggcg	acagtgtcgc	gcacctcgcg	ctcaaaggct	9240
acagggggct	cttctctctc	ttcaatctcc	tttccataaa	gggcctcccc	ttcttcttct	9300
tctggcgggc	gtgggggagg	ggggacacgg	cggcgacgac	ggcgcaaccg	gaggcggtcg	9360
acaaagcgct	cgatcatctc	cccgcggcga	cggcgcatgg	tctcggtgac	ggcgcgcccg	9420
ttctcgcggg	ggcgaggttg	gaagacgccc	cccgtcatgt	cccggttatg	ggttggcggg	9480
gggctgccat	gcggcagggg	tacggcgcta	acgatgcacg	tcaacaattg	ttgtgtaggt	9540
aactccgcgc	cgagggaact	gagcaggtcc	gcacgcaccc	gatcggaaaa	cctctcgaga	9600
aaaggcgcta	accagtcaca	gtcgcaaggt	aggctgagca	ccgtggcggg	cggcagcggg	9660
cggcggtcgg	ggttgtttct	ggcgaggtg	ctgctgatga	tgtaattaaa	gtaggcggtc	9720
ttgagacggc	ggatggtcga	cagaagcacc	atgtccttgg	gtccggcctg	ctgaatgcgc	9780
aggcggtcgg	ccatgcccc	ggcttcggtt	tgacatcggc	gcaggtcttt	gtagtagtct	9840
tgcatgagcc	tttctaccgg	cacttcttct	tctccttctc	cttgtcctgc	atctcttgca	9900
tctatcgctg	cggcgggcgg	ggagtttggt	cgtaggtggc	gccctcttcc	tcccatgcgt	9960
gtgaccccca	agccccctcat	cggctgaagc	agggctaggt	cggcgacaa	gcgctcggtc	10020
aatatggcct	gctgcacctg	cgtgagggta	gactggaagt	catccatgtc	cacaaaagcg	10080
tggtatgcgc	ccgtgttgat	ggtgtaaagt	cagttggcca	taacggacca	gttaacggtc	10140
tggtgacccg	gctgcgagag	ctcgggtgtac	ctgagacggc	agtaagccct	cgagtcaaat	10200
acgtagtcgt	tgcaagtccg	caccaggtac	tggtatccca	ccaaaaagtg	cggcggcggc	10260
tgggcggtaga	ggggccagcg	taggggtggc	ggggctccgg	gggcgagatc	ttccaacata	10320
aggcgatgat	atccgtagat	gtacctggac	atccaggtga	tgccggcggc	gggtggaggag	10380
gcgcgcggaa	agtcgcggac	gcgggtccag	atgttcgcga	gcggcaaaaa	gtgtcccatg	10440
gtcgggacgc	tctggccggg	caggcgcgcg	caatcggtga	cgctctagcg	tgcaaaaagg	10500
gagcctgtaa	gcgggcactc	ttccgtgggt	tggtggataa	attcgcaagg	gtatcatggc	10560
ggacgaccgg	ggttcgagcc	ccgtatccgg	ccgtccggcg	tgatccatgc	ggttaccgcc	10620
cgcgtgtcga	accaggtgtg	gcgacgtcag	acaacggggg	agtgtcctt	ttggcttcct	10680



tccaggcgcg	gcggtgctg	cgctagcttt	tttgccact	ggccgcgcgc	agcgtaagcg	10740
gttaggctgg	aaagcgaaa	cattaagtgg	ctcgctccct	gtagccggag	ggttattttc	10800
caagggttga	gtcgcgggac	ccccggttcg	agtctcggac	cggccgggact	gcggcgaaacg	10860
ggggtttggc	tcccgtcat	gcaagacccc	gcttgcaaat	tcctccgga	acagggacga	10920
gccccctttt	tgcttttccc	agatgcaccc	gggtctgcgg	cagatgcgcc	cccctcctca	10980
gcagcggaac	gagcaagagc	agcggcagac	atgcagggca	ccctcccctc	ctcctaccgc	11040
gtcaggaggg	gcgacatccg	cggttgacgc	ggcagcagat	gggtattacg	aacccccgcg	11100
gcgcccgggc	cggcactacc	tggacttggg	ggaggggcag	ggcctggcgc	ggctaggagc	11160
gccctctcct	gagcgggtacc	caagggtgca	gctgaagcgt	gatacgcgtg	aggcgtagct	11220
gccgcggcag	aacctgtttc	gcgaccgcga	gggagaggag	cccaggagaga	tgccgggatcg	11280
aaagttccac	gcaggggcgcg	agctgcggca	tggcctgaat	cgcgagcggt	tgctgcgcga	11340
ggaggacttt	gagcccgcag	cggaaccggg	gattagtcoc	gcgcgcgcac	acgtggcggc	11400
cgccgacatg	gtaaccgcat	acgagcagac	ggtgaaccag	gagattaact	ttcaaaaaag	11460
ctttaacaac	cacgtgcgta	cgcttggtgg	gcgcgaggag	gtggctatag	gactgatgca	11520
tctgtgggac	tttgtaagcg	cgctggagca	aaacccaaat	agcaagccgc	tcattggcgca	11580
gctgttcctt	atagtgcagc	acagcaggga	caacgaggga	ttcagggatg	cgctgctaaa	11640
catagtagag	cccaggggcc	gctggctgct	cgatttgata	aacatcctgc	agagcatagt	11700
gggtgcaggag	cgcagcttga	gcctggctga	caagggtggc	gccatcaact	attccatgct	11760
tagcctgggc	aagtttttacg	cccgaagat	ataccatacc	ccttacgttc	ccatagacaa	11820
ggagggtaaa	atcgaggggt	tctacatgcg	catggcgctg	aagggtgctta	ccttgagcga	11880
cgacctgggc	gtttatcgca	acgagcgcac	ccacaaggcc	gtgagcgtga	gccggcggcg	11940
cgagctcagc	gaccgcgagc	tgatgcacag	cctgcaaaag	gccctggctg	gcacggggcag	12000
cgccgacatg	gaggccgagt	cctactttga	cgccggcgct	gacctgcgct	gggccccaa	12060
ccgacgcgcc	ctggaggcag	ctggggcgcg	acctgggctg	gcggtggcac	ccgcgcgcgc	12120
tggaacgctc	ggcgcgctgg	aggaatatga	cgaggacgat	gagtacgagc	cagaggacgg	12180
cgagtactaa	gcggtgatgt	ttctgatcag	atgatgcaag	acgcaacgga	cccggcggtg	12240
cgggcgggcg	tgcagagcca	gccgtccggc	cttaactcca	cggacgactg	gcgccaggtc	12300
atggaccgca	tcattgcgct	gactgcgcgc	aatcctgacg	cgctccggca	gcagccgcag	12360
gccaacgcgc	tctccgcaat	tctggaagcg	gtggtcccg	cgcgcgcaaa	ccccagcac	12420
gagaaggtgc	tgccgatcgt	aaacgcgctg	gccgaaaaca	gggccatccg	ccccgacgag	12480
gccggcctgg	tctacgacgc	gctgcttcag	cgcggtggctc	gttacaacag	cggaacgtg	12540
cagaccaacc	tggaaccggt	ggtgggggat	gtgcgcgagg	ccgtggcgca	gcgtgagcgc	12600
gcgcagcagc	agggcaacct	gggctccatg	gttgactaa	acgccttcct	gagtacacag	12660
cccgcacacg	tgccgcggg	acaggaggac	tacaccaact	ttgtgagcgc	actgcggcta	12720
atggtgactg	agacaccgca	aagtggaggtg	taccagtctg	ggccagacta	ttttttccag	12780
accagtagac	aaggcctgca	gaccgtaaac	ctgagccagg	ctttcaaaaa	cttgaggggg	12840
ctgtgggggg	tgccgggctc	cacaggcgac	cgccgcgaccg	tgtctagctt	gctgacgccc	12900
aactcgcgcc	tggtgctgct	gctaatagct	cccttcacgg	acagtggcag	cggtgcccgg	12960
gacacatacc	taggtcactt	gctgacactg	taccgcgagg	ccataggtca	ggcgatgtg	13020
gacgagcata	ctttccagga	gattacaagt	gtcagccgcg	cgctggggca	ggaggacacg	13080
ggcagccctg	aggcaaccct	aaactacctg	ctgaccaaac	ggcggcagaa	gatccctcgc	13140
ttgcacagtt	taaacagcga	ggaggagcgc	atthttgcgt	acgtgcagca	gagcgtgagc	13200
cttaacctga	tgccgcagcg	ggtaacgcc	agcgtggcgc	tggaatgac	cgcgcgcaac	13260
atggaaccgg	gcatgtatgc	ctcaaaccgg	ccgtttatca	accgccta	ggactacttg	13320
catcgcgcg	ccgcctgtaa	ccccgagtat	ttcaccaatg	ccatcttgaa	cccgacttgg	13380
ctaccgcccc	ctggtttcta	caccggggga	ttcgaggtgc	ccgagggtaa	cgatggattc	13440
ctctgggacg	acatagacga	cagcgtgttt	ccccgcgaac	cgagaccct	gctagagttg	13500
caacagcgcg	agcaggcaga	ggcggcgctg	cgaaaggaaa	gcttccgcag	gccaagcagc	13560
ttgtccgata	taggcgctgc	ggccccgcgg	tcagatgcta	gtagccatt	tgcaagcttg	13620
atagggtctc	ttaccagcac	tcgcaccacc	cgccgcgcgc	tgctgggcga	ggaggagtac	13680
ctaaacaact	cgctgctgca	gcgcgacgcg	gaaaaaaacc	tgccctccgcg	atttcccaac	13740
aacgggatag	agagcctagt	ggacaagatg	agtagatgga	agacgtacgc	gcaggagcac	13800
agggacgtgc	caggccccgcg	cccgcaccac	cgctgcataa	ggcacgaccg	tcagcggggt	13860
ctggtgtggg	aggacgatga	ctcggcagac	gacagcagcg	tcctggattt	gggaggaggt	13920
ggcaaccctg	ttgcgcacct	tcgccccagg	ctggggagaa	tgthtttaaa	aaaaaaaagc	13980
atgatgcaaa	ataaaaaact	caccaaggcc	atggcaccga	gcgttggttt	tcctgtattc	14040
cccttagtat	gcggcgcgcg	gcgatgtatg	aggaaggtcc	tcctccctcc	tacgagagtg	14100
tggtgagcgc	gcgcgccagt	gcggcgcgcg	tggtttctcc	cttcgatgct	cccctggacc	14160
cgccgtttgt	gcctccgcgcg	tacctgcggc	ctaccggggg	gagaaacagc	atccgttact	14220
ctgagttggc	accctatttc	gacaccaccc	gtgtgtacct	ggtggacaac	aagtcaacgg	14280
atgtggcatc	cctgaactac	cagaacgacc	acagcaactt	tctgaccacg	gtcattcaaa	14340
acaatgacta	cagcccgggg	gaggcaagca	cacagaccat	caatcttgac	gaccggtcgc	14400
actggggcgg	cgacctgaaa	accatcctgc	ataccaacat	gccaatgtg	aacgagttca	14460
tgthttacaa	taagtttaag	gcgcgggtga	tggtgtcgcg	cttgccctact	aaggacaatc	14520
aggtggagct	gaaatacgag	tggttgaggt	tcacgctgcc	cgagggcaac	tactccgaga	14580
ccatgaccat	agaccttatg	aacaacgcga	tcgtggagca	ctacttga	gtgggcagac	14640

```

agaacggggt tctggaaagc gacatcgggg taaagtttga caccgcgaac ttcagactgg 14700
ggttttgaccc cgtcactggg cttgtcatgc ctgggggtata tacaaacgaa gccttccatc 14760
cagacatcat tttgctgcca ggatgcgggg tggacttcac ccacagccgc ctgagcaact 14820
tgttgggcat ccgcaagcgg caacccttcc aggagggcct taggatcacc tacgatgatc 14880
tggaggggtg taacattccc gcaactgttg atgtggacgc ctaccaggcg agcttgaaag 14940
atgacaccga acagggcggg ggtggcgagc gcggcagcaa cagcagtggc agcggcgcg 15000
aagagaactc caacgcggca gccgcggcaa tgcagccggt ggaggacatg aacgatcatg 15060
ccattcgagg cgacaccttt gccacacggg ctgaggagaa gcgcgctgag gccgaagcag 15120
cggccgaagc tgccgcccc gctgcgcaac ccgaggtcga gaagcctcag aagaaaccgg 15180
tgatcaaacc cctgacagag gacagcaaga aacgcagtta caacctata agcaatgaca 15240
gcaccttcac ccagtaccgc agctggtacc ttgcatacaa ctacggcgac cctcagacog 15300
gaatccgctc atggaccctg ctttgcactc ctgacgtaac ctgcggtctg gagcaggtct 15360
actggtcgtt gccagacatg atgcaagacc ccgtgacctt ccgctccacg cgccagatca 15420
gcaactttcc ggtggtgggc gccagctgtg tgcctgtgca ctccaagagc ttctacaacg 15480
accagggcgt ctactcccaa ctcatccgcc agtttacctc tctgaccac gtgttcaatc 15540
gctttcccga gaaccagatt ttggcgcgcc cgccagcccc caccatcacc accgtcagtg 15600
aaaacgttcc tgctctcaca gatcacggga cgctaccgct gcgcaacagc atcgaggag 15660
tccagcgagt gaccattact gacgccagac gccgcacctg cccctacgtt tacaaggccc 15720
tgggcatagt ctgcgcgcgc gtcctatcga gccgacttt ttgagcaagc atgtccatcc 15780
ttatatcgcc cagcaataac acaggctggg gcctgcgctt cccaagcaag atgtttggcg 15840
gggccaagaa gcgctccgac caacaccagc tgcgcgtgag cgggcactac cgcgcgccct 15900
ggggcgcgca caaacgcggc cgcactgggc gcaccaccgt cgatgacgcc atcgacgcgg 15960
tgggtggagg ggcgcgcaac tacacgcccc cgccgccacc agtgtccaca gtggacgcgg 16020
ccattcagac cgtggtgctg ggagcccgcc gctatgctaa aatgaagaga cgcgaggagg 16080
gcgtagcacg tcgccaccgc cgccgacccg gcaactgccc ccaacgcgcg gcggcgcccc 16140
tgcttaaccg cgcacgtcgc accggccgac gggcgcccat gcgggcccgt cgaaggctgg 16200
ccgcggttat tgtcactgtg cccccagggt ccaggcgacg agcggccgcc gcagcagccg 16260
cggccattag tgctatgact cagggtcgca ggggcaacgt gtattgggtg cgcgactcgg 16320
ttagcgccct gcgcgtgccc gtgcgcaccc gcccccgcg caactagatt gcaagaaaaa 16380
actacttaga ctctactgtg tgtatgtatc cagcgccggc ggcgcgcaac gaagctatgt 16440
ccaagcgcaa aatcaagaa gagatgctcc aggtcatcgc gccggagatc tatggcccc 16500
cgaagaagga agagcaggat tacaagcccc gaaagctaaa gcgggtcaaa aagaaaaaga 16560
aagatgatga tgatgaactt gacgacgagg gacgactgct tggactgtct gcgacctacc gcgcccaggc 16620
gacgggtaca gtggaaaggc cgacgcgtaa aacgtgtttt gcgacctggc accacctag 16680
tctttacgcc cgtgagcgcc tccaccgcga cctacaagcg cgtgtatgat gaggtgtacg 16740
gcgacgagga cctgcttgag caggccaacg agcgccctcg ggagtttgcc tacggaaagc 16800
ggcataagga catgctggcg ttgccgctgg acgagggcaa cccaacacct agcctaaagc 16860
ccgtaacact gcagcaggcg ctgcaccgct tgcagctgat cgaagaaaag cgcgccctaa 16920
agcgcgagtc ttgtgacttg gcaaccaccg tgcagctgat ggtacccaag cgccagcgac 16980
tggaaagatg cttggaaaaa atgaccgtgg aacctgggct ggagcccag gtccgcgtgc 17040
ggccaatcaa gcagggtggc ccgggactgg gcgtgcagac cgtggacgtt cagataacca 17100
ctaccagtag caccagtatt gccaccgcca cagagggcat ggagacaaa acgtccccgg 17160
ttgcctcagc ggtggcggtg gcccggtgct aggcggtcgc tgcggccgcg tccaagacct 17220
ctacggaggt gaaacaggac ccgtggatgt ttgcgcttcc agcccccgcg cgcccccgcg 17280
gttcgaggaa gtacggcgcc gccagcgcg tactgcccga atatgcccta catccttcca 17340
ttgcgcctac ccccggtat cgtggctaca cctaccgccc cagaagacga gcaactaccc 17400
gacgcgcaac caccactgga acccgccgcc gccgtcgccg tcgccagccc gtgtggccc 17460
cgatttccgt gcgcagggtg gctcgcgaag gaggcaggac cctggtgctg ccaacagcgc 17520
gctaccaccc cagcatcggt taaaagccgg tctttgtggt tcttgcagat atggccctca 17580
cctgccgcct ccgtttcccg gtgccgggat tccgaggaag aatgcaccgt aggaggggca 17640
tggccggcca cggcctgacg ggccgcatgc gtcgtgcgca ccaccggcg cgcgcgcg 17700
cgacccgtcg catgcgcggc ggtatcctgc cctccttat tccactgatc gcccgggcga 17760
ttggcgccgt gcccggaatt gcatccgtgg ccttgcaggc gcagagacac tgattaaaaa 17820
caagttgcat gtggaaaaat caaaataaaa agtctggact ctacgctcg cttggtcctg 17880
taactatttt gtagaatgga agacatcaac tttcgctctc tggccccg cgcccccgcg 17940
cgccggttca tgggaaactg gcaagatac ggaccagca atatgagcgg tggcgccctc 18000
agctggggct cgctgtggag cggcattaaa aatttcggtt ccaccgttaa gaactatggc 18060
agcaaggcct ggaacagcag cacaggccag atgtgaggg ataagttgaa agagcaaaa 18120
ttccaacaaa aggtggtaga tggcctggcc tctggcatta gcggggtggg ggacctggcc 18180
aaccaggcag tgcaaaataa gattaacagt aagcttgatc ccgcccctcc cgtagaggag 18240
cctccaccgg ccgtggagac agtgtctoca gaggggcggt gcgaaaagcg tccgcgcccc 18300
gacagggaag aaactctggt gacgcaataa gacgagcctc cctcgtagca ggaggcacta 18360
aagcaaggcc tgcccaccac ccgtcccac gcgcccattg ctaccggagt gctgggcccag 18420
cacacaccgg taacgctgga cctgcctccc cccggcgaca ccagcagaa acctgtgctg 18480
ccaggcccga ccgcggttgt tgtaaccggt cctagccgcg cgccctcgcg ccgcgcgc 18540
agcgggtccgc gatcggttgc gcccgtagcc agtggaact ggcaagcac actgaacagc 18600

```

atcgtgggtc tgggggtgca atccctgaag cgcgcagcat gcttctgaat agctaacgtg 18660  
tcgtatgtgt gtcatgtatg cgtccatgtc gccgccagag gagctgctga gccgccgcgc 18720  
gcccgttttc caagatggct accccttcga tgatgccgca gtgggtcttac atgcacatct 18780  
cgggccagga cgcctcggag tacctgagcc cggggtgggt gcagtttgcc cgcgccaccg 18840  
agacgtactt cagcctgaat aacaagttta gaaacccac ggtggcgcc acgcacgacg 18900  
tgaccacaga ccggtcccag cgtttgacgc tgcggttcat ccctgtggac cgtgaggata 18960  
ctgcgtactc gtacaaggcg cggttcacc tagctgtggg tgataaccgt gtgctggaca 19020  
tggcttcac gtactttgac atccgcggcg tgctggacag gggccctact ttaagccct 19080  
actctggcac tgcctacaac gccctggctc ccaagggtgc ccaaatcct tgcgaatggg 19140  
atgaagctgc tactgctctt gaaataaacc tagaagaaga ggacgatgac aacgaagacg 19200  
aagtagacga gcaagctgag cagcaaaaaa ctcacgtatt tgggcaggcg ccttattctg 19260  
gtataaatat tacaaggag ggtattcaaa taggtgtcga aggtcaaaac cctaaatatg 19320  
ccgataaaac atttcaacct gaacctcaaa taggagaatc tcagtggtag gaaactgaaa 19380  
ttaatcatgc agctgggaga gtccttaaaa agactacccc aatgaaacca tgttacggtt 19440  
catatgcaaa acccaaaaat gaaaatggag ggcaaggcat tcttgtaaag caacaaaatg 19500  
gaaagctaga aagtcaagtg gaaatgcaat ttttctcaac tactgaggcg accgcaggca 19560  
atgggtgataa cttgactcct aaagtgttat tgtacagtga agatgtagat atagaaaccc 19620  
cagacactca tatttcttac atgcccacta ttaagggaag taactcacga gaactaatgg 19680  
gccaacaatc tatgcccac aggcctaatt acattgcttt tagggacaat tttattggct 19740  
taatgtatta caacagcac ggtaatatgg gtgttctggc gggccaagca tcgcagttga 19800  
atgctgttgt agatttgcaa gacagaaaca cagagcttcc ataccagctt ttgcttgatt 19860  
ccattggtga tagaaccag tacttttcta tgtggaatca ggctgttgac agctatgatc 19920  
cagatgttag aattattgaa aatcatggaa ctgaagatga acttccaaat tactgcttcc 19980  
cactgggagg tgtgattaat acagagactc ttaccaaggt aaaacctaaa acaggctcagg 20040  
aaaatggatg ggaaaaagat gctacagaat tttcagataa aaatgaaata agagttggaa 20100  
ataattttgc catggaatc aatctaaatg ccaacctgtg gagaaatttc ctgtactcca 20160  
acatagcgct gtaattgccc gacaagctaa agtacagtcc ttccaacgta aaaatttctg 20220  
ataacccaaa cacctacgac tacatgaaca agcgagtggg ggctcccggg ttagtggact 20280  
gctacattaa ccttgagca cgtcgtgcc ctgcgtacc gctcaatggt gctgggcaat ggtcgctatg 20400  
accaccaccg caatgctggc cctcagaagt tctttgccat taaaaacctc cttctcctgc 20460  
tgcccttcca catccagggtg cctgaacttca ggaaggatgt taacatggtt ctgcagagct 20520  
cgggctcata cacctacgag gttgacggag ccagcattaa gtttgatagc atttgctttt 20580  
ccctaggaaa tgacctaaag gttgacggag gccacaaca cgcctccac gcttgaggcc atgcttagaa 20640  
acgccacctt cttcccctg gccacaaca atctctccgc cgccaacatg ctctacccta 20700  
acgacaccaa cgaccagtc gtgcccata ccatcccctc ccgcaactgg gcggctttcc 20760  
taccgcgcaa cgctaccaac cttacagcgc cttaaagacta aggaaacccc atcactgggc tcgggctacg 20820  
gcggctgggc cttcagcgc ggctctatac cctaccctaga tggaaccttt tactcaacc 20880  
acccttatta cacctactct ggctctatac actcttctgt cagctggcct ggcaatgacc 20940  
acacctttta gaaggtggc ccccaacgag tttgaaatta agcgcctcagt tgacggggag ggttacaacg 21000  
gcctgcttac ccccaacgag tttgaaatta aaagactggg tcttggtaca aatgctagct aactacaaca 21060  
ttgcccagtg taacatgacc aaagactggg gctacaagga ccgcatgtac tcttctttta 21120  
ttggctacca gggcttctat atcccagaga gctacaagga taaatacaag gactaccaac 21180  
gaaacttcca gcccatgagc cgtcagggtg cacaacaact ctggatttgt tggctacctt gcccccacca 21240  
aggtgggcat cctacacca cctgctaact tcccctatcc gcttataggc aagaccgag 21300  
tgcgcgagg acaggcctac aagtttcttt gcgctgcac cctttggcgc atccccattct 21360  
ttgacagcat taccagaaa atgacttttg aggcactca cagacctggg ccaaaacctt ctctacgcca 21420  
actccgcca cgcgctagac atgacttttg aggtggatcc catggacgag cccaccttcc 21480  
tttatgtttt gtttgaagtc tttgacgtgg tccgtgtgca ccggccgcac cgcggcgta 21540  
tcgaaaccgt gtacctgcgc acgcccctct cggccggcaa cgccacaaca taaagaagca 21600  
agcaacatca acaacagctg ccgccatggg ctccagttag caggaactga aagccattgt 21660  
caaagatctt ggttgtgggc catatttttt gggcacctat gacaagcgct ttccaggctt 21720  
tgtttctcca cacaagctcg cctgcgccat agtcaatacg gccggtcgcg agactggggg 21780  
cgtacactgg atggcctttg cctggaaccc gcaactcaaaa acatgctacc tctttgagcc 21840  
ctttggcttt tctgaccagc gactcaagca ggtttaccag tttgagtacg agtcaactct 21900  
gcgcgtagc gccattgctt cttccccga ccgctgtata acgctgaaa agtccacca 21960  
aagcgtacag gggcccaact cggccgcctg tgactattc tgctgcatgt ttctccacgc 22020  
ctttgccaac tggcccaaaa ctcccatgga tcacaacccc accatgaacc ttattaccgg 22080  
ggtacccaac tccatgctca acagtcccca ggtacagccc accctgcgtc gcaaccagga 22140  
acagctctac agcttccctg agcgccactc gccctacttc cgcagccaca gtgcgcagat 22200  
taggagcgcc acttcttttt gtcacttgaa aaataatgta aactcaggca ctagagacac 22260  
tttcaataaa ggcaaatgct tttatttgta cactctcggg tgattattta cccccacct 22320  
tgccgtctgc gccgtttaaa aatcaaaggg gttctgccgc gcatcgctat gcgccactgg 22380  
cagggacacg ttgcgatact ggtgtttagt gctccactta aactcaggca caaccatccg 22440  
cggcagctcg gtgaagtttt cactccacag gctgcgcacc atcaccaacg cgtttagcag 22500  
gtcggggcgcc gatattctga agtcgcagtt ggggcctccg ccctgcgcgc gcgagttggc 22560

atacacaggg	ttgcagcact	ggaacactat	cagcgccggg	tgggtcacgc	tggccagcac	22620
gctcttgctg	gagatcagat	ccgcgtccag	gtcctcccg	ttgctcaggg	cgaacggagt	22680
caactttggt	agctgccttc	ccaaaaaggg	cgctgtccca	ggctttgagt	tgactctgca	22740
ccgtagtggc	atcaaaaggt	gaccgtgccc	ggcttgggg	ttaggataca	gcgcctgcat	22800
aaaagccttg	atctgcttaa	aagccacctg	agcctttgcg	ccttcagaga	agaacatgcc	22860
gcaagacttg	ccggaaaact	gattggccgg	acaggcccg	tcgtgcacgc	agcaccttgc	22920
gtcgggtgtg	gagatctgca	ccacatttcg	gccccaccgg	ttcttcacga	tcttgccctt	22980
gctagactgc	tccttcagcg	cgcgctgccc	gttttcgctc	gtcacatcca	tttcaatcac	23040
gtgctcctta	tttatcataa	tgcttccgtg	tagacactta	agctcgcttc	cgatctcagc	23100
gcagcggtgc	agccacaacg	cgagcccggt	gggctcgtga	tgcttgtagg	tcacctctgc	23160
aaacgactgc	aggtacgcct	gcaggaatcg	ccccatcatc	gtcacaagg	tcttgttgct	23220
ggtgaaggtc	agctgcaacc	cgcggtgctc	ctcgttcagc	caggcttgc	atacgccgc	23280
cagagcttcc	acttggtcag	gcagtagttt	gaagttcgcc	tttagatcgt	tatccacgtg	23340
gtacttgtcc	atcagcgcg	gcgcagcctc	catgcccttc	tcccacgcag	acacgatcgg	23400
cacactcagc	gggttcacga	ccgtaatttc	actttccgct	tcgctgggct	cttctctctc	23460
ctcttgctgc	cgcataccac	gcgccactgg	gtcgtcttca	ttcagccgcc	gcactgtgcg	23520
cttacctctc	ttgccatgct	tgattagcac	cggtgggttg	ctgaaacca	ccattttag	23580
cgccacatct	tctctttctt	cctcgctgtc	cacgattacc	tctgggtgat	gcgggctgc	23640
gggcttgagg	gaagggcgct	tctttttctt	cttgggcgca	atggccaaat	ccgccgcga	23700
ggtcgatggc	cgcggtgtg	gtgtgcgcgg	caccagcgcg	tcttgtgatg	agtcttcttc	23760
gtcctcggac	tcgatacgcc	gcctcatccg	cttttttggg	ggcgcccggg	gaggcgcgcg	23820
cgacggggac	ggggacgaca	cgctcctccat	ggttggggga	cgctcgcgcg	caccgcgtcc	23880
gcgctcgggg	gtgggttcgc	gctgctcttc	ttcccgactg	gccatttctc	tctctatag	23940
gcagaaaaag	atcatggagt	cagtcgagaa	gaaggacagc	ctaaccgccc	cctctgagtt	24000
cgccaccacc	gcctccaccg	atgcgcgcaa	cgcgcttacc	accttccccg	tcgaggcacc	24060
cccgtttgag	gaggaggaag	tgattatcga	gcaggaccca	ggttttgtaa	gcgaagacga	24120
cgaggaccgc	tcagtaccaa	cagaggataa	aaagcaagac	caggacaacg	cagaggcaaa	24180
cgaggaacaa	gtcggggcgg	gggacgaaa	gcattggcgac	tacctagatg	tgggagacga	24240
cgtgctgttg	aagcatctgc	agcgccagtg	cgccattatc	tgcgacgcgt	tgcaagagcg	24300
cagcgatgtg	cccctcgcca	tagcggatgt	cagccttgcc	tacgaacgcc	acctattctc	24360
accgcgcgta	ccccccaaac	gccaagaaaa	cggcacatgc	gagcccaacc	cgcgccctcaa	24420
cttctacccc	gtatttgccg	tgccagaggt	gcttgccacc	tatcacatct	ttttccaaaa	24480
ctgcaagata	cccctatcct	gccgtgccaa	ccgcagccga	gcggacaagc	agctggcctt	24540
gcggcagggc	ctgtgcatac	ctgatatcgc	ctcgctcaac	gaagtgcgca	aaatctttga	24600
gggtcttgga	cgcgacgaga	agcgcgcgcc	aaacgctctg	caacaggaaa	acagcgaaaa	24660
tgaaagtcac	tctggagtgt	tggtggaact	cgagggtgac	aacgcgcgcc	tagccgtact	24720
aaaacgcagc	atcgagggtc	cccactttgc	ctacccggca	cttaacctac	cccccaaggt	24780
catgagcaca	gtcatgagt	agctgatcgt	gcgcgctgcg	cagcccttgg	agagggtatg	24840
aaatttgcaa	gaacaaacag	aggagggcct	accgcagtt	ggcgacgagc	agctagcgcg	24900
ctggettcaa	acgcgcgagc	ctgccgactt	ggaggagcga	cgcaaaacta	tgatggccgc	24960
agtgtcgttg	accgtggagc	ttgagtgcac	gcagcggttc	tttgctgacc	cggagatgca	25020
gcgcaagcta	gaggaaacat	tgcaactac	ctttcgacag	ggctacgtac	gccaggcctg	25080
caagatctcc	aacgtggagc	tctgcaacct	ggtctctctc	cttggaattt	tgcaagaaaa	25140
ccgccttggg	caaaacgtgc	ttcatctcac	gctcaagggc	gaggcgcgcc	gcgactacgt	25200
ccgcgactgc	gtttacttat	ttctatgcta	cacctggcag	acggccatgg	gcgtttggca	25260
gcagtgtctg	gaggagtgc	acctcaagga	gctgcagaaa	ctgctaaagc	aaaacttgaa	25320
ggacctatgg	acggccttca	acgagcgctc	cgtggccgcg	cacctggcgg	acatcatttt	25380
ccccgaacgc	ctgcttaaaa	ccctgcaaca	gggtctgcca	gacttcacca	gtcaaagcat	25440
gttgacagaa	tttaggaact	ttatcctaga	gcgctcagga	atcttgcccg	ccacctgctg	25500
tgacttctct	agcgactttg	tgcccattaa	gtaccgcgaa	tgccctccgc	cgctttgggg	25560
ccactgctac	cttctgcagc	tagccaaacta	ccttgccctac	cactctgaca	taatggaaga	25620
cgtgagcggt	gacggtctac	tgagtggtca	ctgtcgctgc	aacctatgca	ccccgcaccg	25680
ctccctgggt	tgcaattcgc	agctgcttaa	cgaaagtcaa	attatcggtg	ccttttagct	25740
gcagggtccc	tcgcctgacg	aaaagtccgc	ggctccgggg	ttgaaactca	ctccggggct	25800
gtggacgtcg	gcttaccttc	gcaaatttgt	acctgaggac	taccacgccc	acgagattag	25860
gttctacgaa	gaccaatccc	gccccgcaaa	tgccggagctt	accgcctgcg	tcattaccca	25920
ggggcacatt	cttgggcaat	tgcaagccat	caacaagcc	cgccaagagt	ttctgctacg	25980
aaaggagcgg	gggtttact	tgagcccca	gtccggcgag	gagctcaacc	caatcccccc	26040
gccgcccag	ccctatcagc	agcagcccg	ggcccttgct	tcccaggatg	gcacccaaaa	26100
agaagctgca	gctgccgccg	ccaccacgg	acgaggagga	atactgggac	agtcaggcag	26160
aggaggtttt	ggacgaggag	gaggaggaca	tgatggaaga	ctgggagagc	ctagacgagg	26220
aagcttccga	ggtcgaaag	gtgtcagacg	aaacaccgtc	accctcggtc	gcattcccct	26280
gcggcgccgc	ccagaaatcg	gaaaccggtt	ccagcatggc	tacaacctcc	gctcctcagg	26340
cgccgcccgc	actgcccgtt	cgccgaccca	accgtagatg	ggacaccact	ggaaccaggg	26400
ccggtaaagtc	caagcagccg	ccgcccgttag	cccaagagca	acaacagcgc	caaggctacc	26460
gctcatggcg	cgggcacaa	aacgccatag	ttgcttgctt	gcaagactgt	gggggcaaca	26520

tctccttcgc	ccgccgcttt	cttctctacc	atcacggcgt	ggccttcccc	cgtaacatcc	26580
tgcattacta	ccgtcatctc	tacagcccat	actgcaccgg	cggcagcggc	agcggcgagca	26640
acagcagcgg	ccacacagaa	gcaaaggcga	ccggatagca	agactctgac	aaagcccaag	26700
aatccacag	cggcggcagc	agcaggagga	ggagcgctgc	gtctggcgcc	caacgaaccc	26760
gtatcgaccc	gcgagcttag	aaacaggatt	tttccactc	tgtatgctat	atttcaacag	26820
agcagggggc	agaacaaga	gctgaaaata	aaaaacagg	ctctgcgac	cctcaccgc	26880
agctgcctgt	atcacaaaag	cgaagatcag	cttcggcgca	cgctggaaga	cgcgagggt	26940
ctcttcagta	aatactgcgc	gctgactctt	aaggactagt	ttcgcgcct	ttctcaaatt	27000
taagcgcgaa	aactacgtca	tctccagcgg	ccacaccgg	cgccagcacc	tgtcgtcagc	27060
gccattatga	gcaaggaaat	ttccacgccc	tacatgtgga	gttaccagcc	acaaatggga	27120
cttgccgctg	gagctgcccc	agactactca	accgaataa	actacatgag	cgcgggaccc	27180
cacatgatat	ccgggtcaa	cggaatccgc	gcccaccgaa	accgaattct	cttggaacag	27240
gcggctatta	ccaccacacc	tcgtaataac	cttaatcccc	gtagttggcc	cgctgccttg	27300
gtgtaccagg	aaagtccgc	tcccaccact	gtgggtacttc	ccagagacgc	ccaggccgaa	27360
gttcagatga	ctaactcagg	ggcgcagctt	gcggggcgct	ttcgtcacag	ggtgcggtcg	27420
ccggggcagg	gtataactca	cctgacaatc	agagggcgag	gtattcagct	caacgacgag	27480
tcggtgagct	cctcgcttgg	tctccgtccg	gacgggacat	ttcagatcgg	cgcgccgggc	27540
cgctccttcg	tcacgcctcg	tcaggcaatc	ctaactctgc	agacctcgtc	ctctgagccg	27600
cgctctggag	gcattggaac	tctgcaattt	attgaggagt	ttgtgccatc	ggtctacttt	27660
aaccccttct	cgggacctcc	cggccactat	ccggatcaat	ttattcctaa	ctttgacgcg	27720
gtaaaggact	cggcggacgg	ctacgactga	taattaagtg	gagaggcaga	gcaactgcgc	27780
ctgaaacacc	tggtccactg	tcgcgcgccac	aagtgtcttg	cccgcgactc	cggtgagttt	27840
tgctactttg	aattgcccga	ggatcatatc	gaggatcttt	gttgccatct	ctgtgctgag	27900
tataataaat	acagaaatta	aaatatactg	gggtctctat	cgccatcctg	taaacgccac	27960
cgtcttcacc	cgcccaagca	aaaccaaggcg	aaccttacct	ggtactttta	acatctctcc	28020
ctctgtgatt	tacaacagtt	tcaacccaga	cggagtga	ctacgagaga	acctctccga	28080
gctcagctac	tccatcagaa	aaaacaccac	cctccttacc	tgccgggaac	gtacccttaa	28140
ttaaaagtca	ggcttcctgg	atgtcagcat	ctgacttttg	ccagcacctg	tcccgcggat	28200
ttgttccagt	ccaactacag	cgacccaccc	taacagagat	gaccaacaca	accaaccgcg	28260
ccgcgcgtac	cggaacttaca	tctaccacaa	atacacccca	agtttctgcc	tttgtcaata	28320
actgggataa	cttgggcatg	tggtggttct	ccatagcgct	tatgtttgta	tgccctatta	28380
ttatgtggct	catctgtctg	ctaaagcgca	aacgcgccc	accacccatc	tatagtccca	28440
tcattgtgct	acacccaaac	aatgatggaa	tccatagatt	ggacggactg	aaacacatgt	28500
tcttttctct	tacagtatga	ttaaatgaga	ttatttctgtc	aatcttctgtc	cagtttatctc	28560
agcagcacct	ccttgccctc	ctcccagctc	tggtattgca	gcttctctct	ggctgcaaac	28620
tttctccaca	atctaaatgg	aatgtcagtt	tctcctgtgt	cctgtccatc	cgcacccact	28680
atcttcatgt	tggtgcagat	gaagcgcgca	agaccgtctg	aagatacctt	caaccccgctg	28740
tatccatatg	acacggaaac	cggtcctcca	actgtgcctt	ttcttactcc	tccctttgta	28800
ttcccataatg	ggtttcaaga	gagtcctctc	gggtactctc	ctttgcgcct	atccgaacct	28860
ctagttaacct	ccaatggcat	gcttgcgctc	aaaatgggca	acggcctctc	tctggacgag	28920
gccggcaacc	ttacctccca	aaatgtaacc	actgtgagcc	cacctctcaa	aaaaaccaag	28980
tcaaacataa	acctggaaat	atctgcaccc	ctcacagtta	cctcagaagc	cctaactgtg	29040
gctgcgcgcg	cacctcta	ggtcgcgggc	atacacactca	ccatgcaatc	acagggcccg	29100
ctaaccgtgc	acgactccaa	acttagcatt	gccacccaag	gacccctcac	agtgtcagaa	29160
ggaaagctag	ccctgcaaac	atcaggcccc	ctcaccacca	ccgatagcag	tacccttact	29220
atcactgcct	cacccctct	aactactgcc	actggtagct	tgggcattga	cttgaaagag	29280
cccatttata	cacaaaatgg	aaaactagga	ctaaagtacg	gggtcctttt	gcatgtaaca	29340
gacgacctaa	acactttgac	cgtagcaact	gtccagggtg	tgactattaa	taatacttcc	29400
ttgcaaaacta	aagttactgg	agccttgggt	tttgattcac	aaggcaatat	gcaactta	29460
gtagcaggag	gactaaggat	tgattctcaa	aacagacgcc	ttatacttga	tgtagttat	29520
ccgtttgatg	ctcaaaacca	actaaatcta	agactaggac	agggccctct	ttttataaac	29580
tcagcccaca	acttgatat	taactacaac	aaaggccttt	acttgtttac	agcttcaaac	29640
aattccaaaa	agcttgaggt	taacctaaag	actgccaaag	ggttgatggt	tgacgctaca	29700
gccatagcca	ttaatgcagg	agatgggctt	gaatttggtt	cacctaatgc	accaaacaca	29760
aatccctca	aaacaaaaat	tgccatggc	ctagaatttg	attcaaacaa	ggctatgggt	29820
cctaaactag	gaactggcct	tagttttgac	agcacagggtg	ccattacagt	aggaaacaaa	29880
aataatgata	agctaaactt	gtggaccaca	ccagctccat	ctcctaactg	tagactaaat	29940
gcagagaaag	atgctaaact	cacttttggtc	ttacaaaaat	gtggcagtca	aatacttgct	30000
acagtttcag	ttttggctgt	ttaaaggcagt	ttggctccaa	tatctggaac	agttcaaaagt	30060
gctcatctta	ttataagatt	tgacgaaaat	ggagtgtctac	taaacaattc	cttctgggac	30120
ccagaatatt	ggaacttttag	aaatggagat	cttactgaag	gcacagccta	tacaaacgct	30180
gttggattta	tgccctaacct	atcagcttat	ccaaaaatctc	acggtaaaac	tgccaaaagt	30240
aacattgtca	gtcaagttta	cttaaacgga	gacaaaacta	aacctgtaac	actaacatt	30300
acactaaacg	gtacacagga	aacaggagac	acaactccaa	gtgcatactc	tatgtcattt	30360
tcattgggact	ggtctggcca	caactacatt	aatgaaatat	ttgccacatc	ctcttacact	30420
ttttcataca	ttgcccaga	ataaagaatc	gtttgtgtta	tgtttcaacg	tgtttatttt	30480

```

tcaattgcag aaaatttcaa gtcatttttc attcagtagt atagccccac caccacatag 30540
cttatacaga tcaccgtacc ttaatcaaac tcacagaacc ctagtattca acctgccacc 30600
tccctcccaa cacacagagt acacagtcct ttctccccgg ctggccttaa aaagcatcat 30660
atcatgggta acagacatat tcttaggtgt tatattccac acggtttcct gtcgagccaa 30720
acgctcatca gtgatattaa taaactcccc ggcagctca cttaaagttca tgcgctgtc 30780
cagctgctga gccacaggct gctgtccaac ttgctgggtgc ttaacgggagc gcgaaggaga 30840
agtcacagcc tacatggggg tagagtcata atcgtgcatac aggatagggc ggtgggtgctg 30900
cagcagcgcg cgaataaaact gctgccgcgc ccgctccgtc ctgcagggaat acaacatggc 30960
agtgggtctcc tcagcgatga ttgcacccgc ccgcagcata aggcgccttg tctccgggc 31020
acagcagcgc acctgatct cacttaaatc agcacagtaa ctgcagcaca gcaccacaat 31080
attgttcaaa atcccacagt gcaaggcgct gtatccaaag ctcatggcgg ggaccacaga 31140
acctacgtgg ccatcatacc acaagcgag gtagattaag tggcgacccc tcataaacac 31200
gctggacata aacattacct cttttggcat gttgtaattc accacctccc ggtaccatat 31260
aaacctctga ttaaacatgg cgccatccac caccatccta aaccagctgg ccaaaacctg 31320
cccgccggct atacactgca gggaaccggg actggaacaa tgacagtggg gagcccagga 31380
ctogtaacca tggatcatca tgctcgtcat gatatcaatg ttggcacaac acaggcacac 31440
gtgcatacac ttctcagga ttacaagctc ctcccgcgtt agaaccatat ccagggaac 31500
aaccatttcc tgaatcagcg taaatccac actgcaggga agacctcgca cgtaaactac 31560
gttgtgcatt gtcaaaagtgt tacattcggg cagcagcgga tgatcctoca gtatggtagc 31620
gcgggtttct gtctcaaaaag gaggtagacg atcccactg tacggagtgc gccgagacaa 31680
ccgagatcgt gttggctgta gtgtcatgcc aaatggaacg ccggacgtag tcatatttcc 31740
tgaagcaaaa ccaggtgcgg gcgtgacaaa cagatctcgc tctccggtct cgccgcttag 31800
atcgctctgt gtagtagttg tagtatatcc actctctcaa agcatccagg cgccccctgg 31860
cttcgggttc tatgtaaaact ctttcatgcg ccgctgccct gataacatcc accaccgag 31920
aataagccac gaagagctgg aagaaccatg tttttttttt tattccaaaa gattatccaa aacctcaaaa 32040
tgaagatcta ttaagtgaac gcgctcccct ccggtggcgt ggtcaaaactc tacagccaaa 32100
gaacagataa tggcatttgt aagatgttgc acaatggctt ccaaaaggca aacggccctc 32160
acgtccaagt ggacgtaaaag gctaaaccct tcagggtgaa tctcctctat aaacattcca 32220
gcaccttcaa ccatgcccaa ataattctca tctcgccacc ttctcaatat atctctaagc 32280
aaatcccgaa tattaagtcg gccatttgta aaaatctgct ccagagcgcc ctccaccttc 32340
agcctcaagc agcgaatcat gattgcaaaa attcagggttc ctcacagacc tgtataagat 32400
tcaaaagcgg aacattaaca aaaataccgc gatcccgtag gtcccttcgc agggccagct 32460
gaacataatc gtgcaggctc gcacggacca gcgcggccac ttccccgcca ggaaccttga 32520
caaaagaacc cacactgatt atgacacgca tactcggagc tatgctaacc agcgtagccc 32580
cgatgtaagc tttgttgcat gggcgcgcat ataaaaatgca aggtgctgct caaaaaatca 32640
ggcaaaagcct cgcgcaaaaa agaaaagcaca tcgtagtcat gctcatgcag ataaaggcag 32700
gtaagctccg gaaccaccac agaaaaagac accatttttc tctcaaacat gtctgcgggt 32760
ttctgcataa acacaaaata aaataacaaa aaaacattta aacattagaa gcctgtctta 32820
caacaggaaa aacaaccctt ataagcataa gacggactac ggccatgccg gcgtgaccgt 32880
aaaaaaactg gtcaccgtga ttaaaaagca ccaccgacag ctccctcggtc atgtccggag 32940
tcataatgta agactcggta aacacatcag gttgattcat ccgtcagtg ccaaaagcga 33000
ccgaaatagc ccgggggaat acataccgc aggcgtagag acaacattac agccccata 33060
ggaggtataa caaaattaat aggagagaaa aacacataaa cacctgaaaa accctcctgc 33120
ctaggcaaaa tagcaccctc ccgctccaga acaacataca gcgcttaca gcggcagcct 33180
aacagtcagc cttaccagta aaaaagaaaa cctattaaaa aaacaccact cgacacggca 33240
ccagctcaat cagtcacagt gtaaaaaagg gccaaagtgc ttacactgca gcaggtgtga 33300
ctcagccatg gcacctctgc agcctgggta ccctgcttgg ggcattggccc cttatagctg 33360
ggcgggggcgt gggggctctg taggagtggc agcgacctca gtgtttgtct ttgctctgaa 33420
gagccctcca ggtgcttgat cccacctttt cccagcagga acactcctgc ctgccttacc 33480
acctgtcctg gctgatggcc tgttcctgcc tcttttgccc cctgcccaga ctcccatggt 33540
cctggacttg tggcttctc caaccagggt ttgaggaggg tggaggggcat ctggttgggg gcagcctggg 33600
tccaggccgt gggaggagg cctgggcctc ccaggccccc tctactcttg agcaatgctc 33720
tgttccccct cctgacctggc tcttaaccct gggcaagccc tgggaaggga gaccaggagc 33780
actctcacca cctccttacc ttttccccct gaaaaatctt ctgtataact cccattttaa 33840
gaaaactaca attcccaaca catacaagtt actccgcctt aaaacctacg tcaccgccc 33900
cgttcccacg ccccgcgcca cgtcacaaac tccacccctt cattatcata ttggcttcaa 33960
tccaaaataa ggtatattat tgatgatg 33988

```

<210> 15

<211> 34737

<212> DNA

<213> Adenovirus subgroup C

<400> 15

catcatcaat	aatatacctt	attttggatt	gaagccaata	tgataatgag	ggggtggagt	60
ttgtgacgtg	gcgcggggcg	tgggaacggg	gcgggtgacg	tagtagtggt	gcggaagtgt	120
gatgttgcaa	gtgtggcgga	acacatgtaa	gcgacggatg	tggcaaaagt	gacgtttttg	180
gtgtgcgcgc	gtgtacacag	gaagtgtaca	ttttcgcgcg	gttttaggcg	gatgttgtag	240
taaatttggg	cgtaaccgag	taagatttgg	ccattttcgc	gggaaaactg	aataagagga	300
agtgaatct	gaataatttt	gtgttactca	tagcgcgtaa	tatttgtcta	gggccgcggg	360
gactttgacc	gtttacgtgg	agactcgccc	aggtgttttt	ctcaggtgtt	ttccgcgttc	420
cgggtcaaa	ttggcgtttt	attattatag	tcagctgacg	tgtagtgtat	ttatacccg	480
tgagttcctc	aagaggccac	tcttgagtgc	cagcgagtgc	agttttctcc	tccgagccgc	540
tccgacaccg	ggactgaaaa	tgagacatga	ggtactggct	gataatcttc	cacctcctag	600
ccattttgaa	ccacctaccc	ttcacgaact	gtatgattta	gacgtgacgg	ccccgaaga	660
tcccaacgag	gaggcggttt	cgcagatttt	tcccgaactc	gtaatgttgg	cggtgcagga	720
agggattgac	ttactcactt	ttccgcggcg	gcccggttct	ccggagccgc	ctcacctttc	780
ccggcagccc	gagcagccgg	agcagagagc	cttgggtccg	gtttgccacg	aggtcggttc	840
tccaccaggt	gacgacgagg	atgaagaggg	tgaggagtgt	gtgttagatt	atgtggagca	900
ccccgggcac	ggttgacagt	cttgtcatta	tcaccggagg	aatacggggg	accagatat	960
tatgtgttcg	ctttgctata	tgaggacctg	tggtggtttt	gtctacagta	agtgaatatt	1020
atgggcagtg	ggtgatagag	tgggtgggtt	ggtgtggtta	tttttttttt	aattttttaca	1080
gttttgtggt	ttaaagaatt	ttgtattgtg	atttttttta	aaggctcctg	gtctgaacct	1140
gagcctgagc	ccgagccaga	accggagcct	gcaagaccta	cccgcctgcc	taaaatggcg	1200
cctgctatcc	tgagacgccc	gacatcacct	gtgtctagag	aatgcaatag	tagtacggat	1260
agctgtgact	ccggtccttc	taacacacct	cctgagatac	accgggtggt	cccgtctgtc	1320
cccattaaac	cagttgcccgt	gagagttggt	gggcgtcgcc	aggctgtgga	atgtatcgag	1380
gacttgccta	acgagcctgg	gcaacctttg	cagcttagct	gtaaacgccc	caggccataa	1440
ggtgtaaacc	tgtgattgag	tgtgtggtta	acgcctttgt	ttgctgaatg	agttgatgta	1500
agtttaataa	aggggtgagat	aatgttttaac	ttgcatggcg	tgtaaataag	ggcggggctt	1560
aaagggtata	taatgcgcgc	tgggctaata	ttggttacat	ctgacctcat	ggaggcttgg	1620
gagtgtttgg	aagatttttc	tgtgtgtcgt	aacttgcctg	aacagagctc	taacagtacc	1680
tcttgggttt	tgagggtttc	tgtgggctca	tcccaggcaa	agttagtctg	cagaattaag	1740
gaggattaca	agtgggaatt	tgaagagctt	ttgaaatcct	gtggtgagct	gtttgattct	1800
ttgaatctgg	gtcaccaggc	gcttttccaa	gagaagggtc	tcaagacttt	ggatttttcc	1860
acaccggggc	gcgctgcggc	tgtgtgtgct	tttttgagtt	ttataaagga	taaatggagc	1920
gaagaaaccc	atctgagcgg	gggttacctg	ctggattttc	tggccatgca	tctgtggaga	1980
gcggttggtg	gacacaagaa	tcgcctgcta	ctgtgtgtct	ccgtccgccc	ggcgataata	2040
ccgacggagg	agcagcagca	gcagcaggag	gaagccaggc	ggcggcgcca	ggagcagagc	2100
ccatggaacc	cgagagccgg	cctggaccct	cggaatgaa	tggtgtacag	gtggctgaac	2160
tgtatccaga	actgagacgc	attttgacaa	ttacagagga	tgggcagggg	ctaaaggggg	2220
taaagaggga	gcggggggct	tgtgaggcta	cagaggaggc	taggaatcta	gcttttagct	2280
taatgaccag	acaccgtcct	gagtgtatta	cttttcaaca	gatcaaggat	aattgcgcta	2340
atgagcttga	tctgctggcg	cagaagtatt	ccatagagca	gctgaccact	tactggctgc	2400
agccagggga	tgattttgag	gaggctatta	gggtatatgc	aaaggtggca	cttaggccag	2460
attgcaagta	caagatcagc	aaacttgtaa	atatcaggaa	ttgttgctac	atttctggga	2520
acggggccga	ggtggagata	gatacggagg	atagggtggc	ctttagatgt	agcatgataa	2580
atatgtggcc	gggggtgctt	ggcatggacg	gggtggttat	tatgaatgta	aggtttactg	2640
gccccaat	tagcggtagc	gttttcctgg	ccaataccaa	ccttatecta	cacggtgtaa	2700
gcttctatgg	gtttaacaat	acctgtgtgg	aagcctggac	cgatgtaagg	gttcggggct	2760
gtgcctttta	ctgctgctgg	aaggggggtg	tgtgtcgccc	caaaagcagg	gcttcaatta	2820
agaaatgcct	ctttgaaagg	tgtaccttgg	gtatcctgtc	tgagggtaac	tccaggggtc	2880
gccacaatgt	ggcctccgac	tgtggttgc	tcatgctagt	gaaaagcgtg	gctgtgatta	2940
agcataacat	ggtatgtggc	aactgcgagg	acagggcctc	tcagatgctg	acctgctcgg	3000
acggcaactg	tcacctgctg	aagaccattc	acgtagccag	ccactctcgc	aaggcctggc	3060
cagtgtttga	gcataacata	ctgaccgcgt	gttccttgca	tttgggtaac	aggagggggg	3120
tgttccttacc	ttaccaatgc	aattttgagtc	acactaagat	attgcttgag	cccagagaca	3180
tgtccaaggt	gaacctgaac	ggggtgtttg	acatgaccat	gaagatctgg	aagggtctga	3240
ggtacgatga	gaccgcgacc	agggtgcagac	cctgcgagtg	tggcggtaaa	catattagga	3300
accagcctgt	gatgctggat	gtgaccgagg	agctgaggcc	cgatcacttg	gtgctggcct	3360
gacccgcgcg	tgagtttggc	tctagcgatg	aagatacaga	ttgaggtact	gaaatgtgtg	3420
ggcgtggcct	aagggtggga	aagatgtggg	tcttatgtag	ttttgtatct	ttttgtatct	3480
gttttgcagc	agccgcgcgc	gccatgagca	ccaactcggt	tgatggaagc	attgtgagct	3540
catatttgac	aacgcgcgat	cccccatggg	ccgggtgctg	tcagaatgtg	atgggctcca	3600
gcattgatgg	tcgccccgct	ctgccccgaa	actctactac	cttgacctac	gagaccgtgt	3660
ctggaacgcc	gttgagagct	gcagcctccg	ccgcgccttc	agccgctgca	gccaccgccc	3720
cgggattgtg	gactgacttt	gctttcctga	gcccgccttc	aagcagtgca	gcttcccgtt	3780
catccgcccc	cgatgacaag	ttgacggctc	ttttggcaca	attggattct	ttgaccgggg	3840
aacttaatgt	cgtttctcag	cagctgttgg	atctgcgcca	gcaggtttct	gccctgaagg	3900
cttctctccc	tcccaatgag	gtttaaaaca	taaataaaaa	accagactct	gtttggattt	3960



```

ggatcaagca agtgtcttgc tgtctttatt taggggtttt gcgcgcgcgg taggcccggg 4020
accagcggtc tcggtcgttg agggctcctgt gtattttttc caggacgtgg taaaggtgac 4080
tctggatgtt cagatacatg ggcataagcc cgtctctggg gtggaggtag caccactgca 4140
gagcttcatg ctgcggggtg gtgtttaga tgatccagtc gtagcaggag cgctgggcgt 4200
ggtgcctaaa aatgtctttc agtagcaagc tgattgccag gggcaggccc ttggtgtaag 4260
tgtttacaaa gcggttaagc tgggatgggt gcatacgtgg ggatatgaga tgcactcttg 4320
actgtatttt taggttggtc atgttccag ccatatccct ccggggattc atgttgtgca 4380
gaaccaccag cacagtgtat ccggtgcact tgggaaattt gtcatgtagc ttagaaggaa 4440
atgctgggaa gaacttgag acgccctgt gacctccaag attttccatg cattcgtcca 4500
taatgatggc aatgggcca cgggcggcgg cctgggcgaa gatatttctg ggatcactaa 4560
cgtcatagtt gtgttccagg atgagatcgt cataggccat ttttaciaaag cgcgggcgga 4620
gggtgccaga ctgcggtata atgttccat ccggcccagg ggcgtagtta ccctcacaga 4680
tttgcatttc ccacgctttg agttcagatg ggggatcat gtctacctgc ggggcgatga 4740
agaaaacggt ttccggggtg ggggagatca gctgggaaga aagcaggttc ctgagcagtc 4800
gcgacttacc gcagccggtg ggcccgtaaa tcacacctat taccgggtgc aactggtagt 4860
taagagagct gcagctgccg tcatccctga gcaggggggc cacttcgtta agcatgtccc 4920
tgactcgcgt gttttccctg accaaatccg ccagaaggcg ctgcgcgccc agcgatagca 4980
gttcttgcga ggaagcaaag tttttcaacg gttttagacc gtccgcccga ggcatgcttt 5040
tgagcgtttg accaagcagt tccaggcgtt cccacagctc ggtcacctgc tctacggcat 5100
ctcgatccag catatctcct cgtttcgcgg gttggggcgg ctttcgctgt acggcagtag 5160
tcggtgctcg tccagacggg ccagggtcat gtctttccac gggcgaggg tectcgctag 5220
cgtagtctgg gtcacggtga aggggtgcgc tccgggctgc gcgctggcca ggggtgcgctt 5280
gaggtgggtc ctgctggtgc tgaagcgctg ccggtcttcg cctgcgcgt cgccaggtta 5340
gcatttgacc cgtttgtcat agtccagccc ctccgcgctg tggcccttgg cgcgcagctt 5400
gcccttgag gaggcgccgc acgaggggca gtgcagactt ttgagggcgt agagcttggg 5460
cgcgagaaat accgattccg gggagtaggc atccgcgccc caggccccgc agacggtctc 5520
gcattccacg agccagggtg gctctggccc ttcgggggtca aaaaccagggt ttcccccatg 5580
cattttgatg cgtttcttac ctctggtttc catgagccgg tgteccagct cggtgacgaa 5640
aaggtgtccc gtgtcccgt tatagaaact cggaccactc tgagacaaag gctcgcgtcc aggccagcac 5700
gtcctcctcg aagtgagggt aagtgggagg ggtagcggtc gttgtccact aggggggtcca ctgcgtccag 5760
gaaggagggt cacatgtcgc cctcttcggc atcaaggaag gtgattggtt tgtaggtgta 5820
ggccacgtga ccgggtgttc ctgaaggggg gctataaaaag ggggtggggg cgcttctgctc 5880
ctcactctct ctcacatcgc tgcctgcgag gggcagctgt tggggtgagt actccctctg 5940
aaaagcgggc atgacttctg cgctaagatt gtcagtttcc aaaaacgagg aggatttgat 6000
attcacctgg ccgcggtga tgcttttag ggtggccgca tccatctggt cagaaaagac 6060
aatctttttg ttgtcaagct tggtggaaca cgaccgtag agggcggttg acagcaactt 6120
ggcgtaggag cgcagggttt gggttttctg cgcgtcggcg cgctccttgg ccgcgtggtt 6180
tagctgcacg tattcgcgcg caacgcaccg ccattcggga aagacggtgg tgcgctcgtc 6240
gggcaccagg tgcacgcgcc aaccgcggtt gtgcagggtg acaagggtcaa cgctgggtggc 6300
tacctctccg cgtaggcgct cgttgggtcca gcagaggcgg ccgcccttgc gcgagcagaa 6360
tggcggtagg gggcttagct gcgtctcgtc cggggggtct cgtccacgg taagacccc 6420
gggcagcagg cgcgcgtcga agtagtctat ctctgcatcct tgcaagtcta gcgcctgctg 6480
ccatgcgcgg gcggcaagcg cgcgctcgta tgggttgagt gggggacccc atggcatggg 6540
gtgggtgagc gcggaggcgt acatgccgca aatgtcgtaa acgtagaggg gctctctgag 6600
tattccaaga tatgtagggt agcatcttcc accgcggatg ctggcgcgca cgtaatcgta 6660
tagttcgtgc gagggagcga ggaggtcggg accgaggttg ctacgggcgg gctgctctgc 6720
tcggaagact atctgcctga agatggcatg tgagttggat gatattggtg gacgctggaa 6780
gacgttgaag ctggcgtctg tgagacctac cgcgtcacgc acgaaggagg cgtaggagtc 6840
gcgcagcttg ttgaccagct cggcgggtgac ctgtcacgtct agggcgaggt agtccagggt 6900
ttccttgatg atgtcatact tctcctgtcc ctttttttcc cacagctcgc ggttgaggac 6960
aaactcttcg cgtcttttcc agtactcttg gatcggaac cgtcggcct ccgaacggta 7020
agagccttagc atgtagaact ggttgacggc gatcggaac cagcatccct tttctacggg 7080
tagcgcgtat gcctgcgcgg ccttccggag cgaggtgtgg gtgagcgcaa aggtgtccct 7140
gaccatgact ttgagggtact ggtatttgaa gtcagtgtcg tcgcataccg cctgctccca 7200
gagcaaaaag tccgtgcgct ttttggaacg cggatttggc agggcgaagg tgacatcggt 7260
gaagagtatc' tttccgcgc gaggcataaa gtattcgtgt atgcggaagg gtcgccgcac 7320
ctcggaaacg ttgttaatta cctgggcggc gagcacgac tcgtcaaagc cgttgatggt 7380
gtggcccaca atgtaaagtt ccaagaagcg cgggatgcc ttgatggaag gcaatttttt 7440
aagttcctcg taggtgagct cttcagggga gctgagccc tgctctgaaa gggcccagtc 7500
tgcaagatga gggttggaag cgacgaatga gctccacagg tcacgggcca ttagcatttg 7560
caggtggtcg cgaaaggctc taaactggcg acctatggcc attttttctg ggggtgagca 7620
gtagaaggta agcgggtctt gttcccagcg gtcccatcca aggttcgcgg ctaggtctcg 7680
cgcggcagtc actagaggct catctccgcc gaacttcatg accagcatga agggcacgag 7740
ctgcttccca aaggcccca tccaagtata ggtctctaca tcgtagggtg caaagagacg 7800
ctcgggtcga ggatgcgagc cgatcgggaa gaactggatc tcccgcacc aattggagga 7860

```

```

gtggctattg atgtggtgaa agtagaagtc cctgcgacgg gccgaacact cgtgctggct 7980
tttgtaaaaa cgtgcgcagc actggcagcg gtgcacgggc tgtacatcct gcacgaggtt 8040
gacctgacga ccgcgcacaa ggaagcagag tgggaatttg agccctcgc ctggcgggtt 8100
tggctggtgg tcttctactt cggctgcttg tcttgaccg tctggctgct cgaggggagt 8160
tacggtggat cggaccacca cgcgcgcga gcccaaatc cagatgtccg cgcgcggcgg 8220
tcggagcttg atgacaacat cgcgcagatg ggagctgtcc atggtctgga gctccgcgg 8280
cgtcaggtca ggcgggagct cctgcaggtt tacctcgcag agacgggtca ggcgcggggc 8340
tagatccagg tgatacctaa tttccagggg ctggttggtg gcggcgtcga tggcttgcaa 8400
gaggccgcat cccgcgcggc cgactacggt accgcgcggc gggcgggtgg ccgcgggggt 8460
gtccttggtat gatgcatcta aaagcgggta cgcgggcgag ccccgaggag tagggggggc 8520
tccggaccgg ccgggagagg gggcaggggc acgtcggcgc cgcgcgcggg caggagctgg 8580
tgctgcgcgc gtaggttgct ggccaacgcg acgacgcgcg ggttgatctc ctgaatctgg 8640
cgcctctgcg tgaagacgac gggcccgtg agcttgagcc tgaaagagag ttcgacagaa 8700
tcaatttcgg tgctgttgac ggcgccctgg cgcaaaatct cctgcacgtc tctgagttg 8760
tcttgatagg cgaatcgcgc catgaactgc tcatctctt cctcctggag atctccgcgt 8820
ccggctcgcct ccacgggtggc ggcgaggtcg ttggaaatgc gggccatgag ctgcgagaa 8880
gcgttgaggc ctcctcgtt ccagacgcgg ctgtagacca cgcctccttc ggcctcgcgg 8940
gcgcgcagta ccacctgcgc gagattgagc tccacgtgcc gggcgaagac ggcgtagttt 9000
cgcaggcgct gaaagaggtg gttgaggggt gtggcgggtg gttctgccac gaagaagtac 9060
ataaccacag gtgcgaacgt ggattcgttg atatccccc aggcctcaag gcgctccatg 9120
gcctcgtaga agtccacggc gaagttgaaa aactgggagt tgcgcgccga caggttaac 9180
tctcctcca gaagacggat gagctcggcg acagtgtcgc gcacctcgcg ctcaaaggct 9240
acaggggcct cttcttcttc ttcaatctcc tcttccataa gggcctcccc ttcttcttct 9300
tctggcggcg gtgggggagg ggggacacgc cgcgcacgac ggcgacccgg gagggtctcg 9360
acaagcgct cgatcatctc cccgcggcga cgcgcagatg tctcgggtgac ggcgcggccg 9420
ttctcgcggg ggcgcagttg gaagacgcgc cccgtcatgt cccggttatg ggttggcggg 9480
gggctgccat gcggcagggg tacggcgcta acgatgcac tcaacaattg ttgtgtagg 9540
actccgcgcg cgagggacct gagcgagtc gcacgcacc gatcgaaaa cctctcgaga 9600
aaggcgtcta accagtcaca gtgcgaaggt aggcctgagc cgtggcggg ccgcgggggt 9660
cggcggtcgg ggttgtttct ggcgagggtg ctgctgatga tgtaattaaa gtagggcggtc 9720
ttgagacggc ggatggtcga cagaagcacc atgtccttgg gtccggcctg ctgaatgcgc 9780
aggcggtcgg ccatgcccc ggcttcgttt tgacatcggc gcaggctctt tagtagtct 9840
tgcatgagcc tttctaccgg cacttcttct tctccttct cttgtcctgc atctcttga 9900
tctatcgctg cggcgcggcg ggagtttggc cgtaggtggc gccctcttcc tcccatgcgt 9960
gtgacccga agccctcat cggtgaagc agggctaggt cggcgacaac gcgctcggct 10020
aatatggcct gctgcacctg cgtgagggta gactggaagt catccatgtc cacaagcgg 10080
tggtatgcgc ccgtgttgat ggtgtaagtg cagttggcca taacggacca gttacgggtc 10140
tggtgacccg gctgcgagag ctcggtgtac ctgagacgcg agtaagccct caggtcaaat 10200
acgtagtcgt tgcaagtccg caccaggtac tggtatccca ccaaaaagtg cggcgggcgg 10260
tggcggtaga gggccagcg tagggtggcc ggggctccgg gggcgagatc ttccaacata 10320
aggcgatgat atccgtagat gtacctggac atccaggtga tgccggcggc ggtggtggag 10380
gcgcgcggaa agtcgcggac gcggttccag atgttgcgca gcggcaaaaa gtgctccatg 10440
gtcgggacgc tctggccggt caggcgcgcg caatcgttga cgctctagcg tgcaaaagga 10500
gagcctgtga gcgggcactc ttcggtggtc tgggtgataa attcgcaagg gtatcatggc 10560
ggacgacccg ggttcgagcc ccgtatccgg ccgtccgcgc tgatccatgc ggttacggcc 10620
cgcgtgtcga acccaggtgt gcgacgtcag acaacggggg agtgctcctt ttggttctct 10680
tccaggcgcg gcggtgctg cgctagcttt tttggccact ggccgcgcgc agcgtaagcg 10740
gttaggtctg aaagcgaaag cattaaagtg ctcgctccct gtagccggag ggttattttc 10800
caagggttga gtcgcgggac ccccggttcg agtctcggac cgcccgact gcggcgaaac 10860
ggggtttgcc tccccgtcat gcaagacccc gcttgcaaat tcctccggaa acagggacga 10920
gccctttttt tgcttttccc agatgcaccc ggtgtcgcg cagatgcgcc cccctcctca 10980
gcagcggcaa gagcaagagc agcggcagac atgcagggca cctcctccgc ctccctacgc 11040
gtcaggaggg gcgacatccg cggttgacgc ggcagcagat ggtgattacg aacccccgcg 11100
gcgcggggcc gcgcactacc tggacttgga ggaggcgag ggcctggcgc ggctaggagc 11160
gccctctcct gagcgtacc caagggtgca gctgaagcgt gatacgcgtg aggcgtacgt 11220
gccgcggcag aacctgtttc gcgacccgga gggagaggag cccgaggaga tgcgggatcg 11280
aaagtccac gcagggcgcg agctgcggga tggcctgaat cgcgagcggg tgctgcgcga 11340
ggaggacttt gagcccgcg cgcgaaccgg gattagtccc gcgcgcgcac acgtggcggc 11400
cgccgacctg gtaaccgcat acgagcagac ggtgaaccag gagattaact ttcaaaaaag 11460
ctttaacaac cacgtgcgta cgcttggtgg gcgcgaggag gtggctatag gactgatgca 11520
tctgtgggac tttgtaaagc cgctggagca aaacccaaat agcaagccgc tcatggcgca 11580
gctgttcctt atagtgcagc acgcaggga caacgaggca ttcagggatg cgctgctaaa 11640
catagtagag cccgagggcc ctgggtgct cgatttgata aacatcctgc agagcatagt 11700
ggtgcaggag cgcagcttga gcctggctga caaggtggcc gccatcaact attccatgct 11760
tagcctgggc aagttttacg cccgcaagat ataccatacc ccttacgttc ccatagacaa 11820
ggaggtaaa atcgaggggt tctacatgcg catggcgctg aaggtgctta ccttgagcga 11880

```

cgacctgggc gtttatcgca acgagcgcac ccacaaggcc gtgagcgtga gccggcgccg 11940  
 cgagctcagc gaccgcgagc tgatgcacag cctgcaaagg gccctggctg gcacgggcag 12000  
 cggcgataga gagcccgagt cctactttga cgcgggcgct gacctgcgct gggccccaag 12060  
 ccgacgcgcc ctggaggcag ctggggcccg acctgggctg gcggtggcac ccgcgcgcgc 12120  
 tggcaacgct gcggtgatgt ttctgatcag atgatgcaag gactacgagc cagaggacgg 12180  
 cgagtactaa tgcagagcca gccgtccggc cttaactcca cggacgactg ggcgcaggtc 12240  
 cgggcggcgc tcatgtcgct gactgcgcgc aatcctgacg cgttccggca gcagccgcag 12300  
 atggaccgca tctccgcaat tctggaagcg gtggtcccgg cgcgcgcaaa ccccacgcac 12360  
 gccaaaccgg ttcggcgcgt aaacgcgcgt gccgaaaaca gggccatccg gcccgacgag 12420  
 gagaaggtgc tggcgatcgt gctgcttcag cgcgtggctc gttacaacag cggcaacgtg 12480  
 gccggcctgg tctacgacgc gctgcttcag cgcgtggctc gttacaacag cggcaacgtg 12540  
 cagaccaacc tggaccggct ggtgggggat gtgcgcgagg ccgtggcgca gcgtgagcgc 12600  
 gcgcagcagc agggcaacct gggctccatg gttgcactaa acgccttccg gactacacag 12660  
 ccgcaccaac tgcgcggggg acaggaggac tacaccaact ttgtgagcgc actgcggcta 12720  
 atggtgactg agacaccgca aagtggagtg taccagtctg ggccagacta tttttccag 12780  
 accagtagac aaggcctgca gaccgtaaac ctgagccagg ctttcaaaaa cttgcagggg 12840  
 ctgtgggggg tgccgggctcc cacaggcgac cgcgcgaccg tgtctagctt gctgacgccc 12900  
 aactcgcgcc tgttgctgct gctaatagcg cccttcacgg acagtggcag cgtgtcccgg 12960  
 gacacatacc taggtcactt gctgacactg taccgcgagg ccataggtca ggcgcagtgt 13020  
 gacgagcata ctttccagga gattacaagt gtcagccgcg cgtggggca ggaggacacg 13080  
 ggcagcctgg aggaaccct aaactacctg ctgaccaacc ggcggcagaa gatcccctcg 13140  
 ttgcacagtt taaacagcga ggaggagcgc attttgcgt acgtgcagca gacggtgagc 13200  
 cttaacctga tgcgcgacgg ggtaacgccc agcgtggcgc accgcctaata ggactacttg 13320  
 atggaaccgg gcatgtatgc ctcaaacccg ccgtttatca ccactctgaa cccgcactgg 13380  
 catcgcgcgg ccgccgtgaa ccccgagtat ttcaccaatg ccaggggtaa cgtatggattc 13440  
 ctaccgcccc ctggtttcta caccggggga ttcgaggtgc ccgagaccct gctagagttg 13500  
 ctctgggacg acatagacga agcagcgaga ggcggcgctg cgaaggaaa gcttccgcag 13560  
 caacagcgcg agcagcgaga ggcggcgctg ggcggcgctg gtagccatt tccaagcttg 13620  
 ttgtccgacg taggcgctgc ggcggcgctg ggcggcgctg gtagccatt tccaagcttg 13680  
 atagggtctc ttaccagcac tgcgaccacc cgcggcgccc gaaaaaacc tgctccggc 13740  
 ctaaaact cgtctgtgca gccgcagcgc gaaaaaacc agacgtacgc gcaggagcac 13800  
 aacgggatag agagcctagt ggacaagatg agtagatgga agacgtacgc gcaggagcac 13860  
 agggacgtgc caggcccgcc cccgcccacc cgtcgtcaaa ggcacgaccg tcagcggggg 13920  
 ctggtgtggg aggcagatga ctccggcagc gacagcagcg tcttgattt gggaggaggt 13980  
 ggcaaccctg ttgcgcacct tgcggccagg ctggggagaa tgttttaaaa aaaaaaaagc 14040  
 atgatgcaaa ataaaaaact caccaaggcc atggcaccga gcgttggttt tcttgattc 14100  
 cccttagtag gcggcgcgcg gcgatgtatg aggaaggtcc tcttccctcc tacgagagtg 14160  
 tgggtgagcg ggcggcagtg ggcggcgcg gcggcgcgcg ctacggggg gagaaacagc atccgttact 14220  
 cgccgtttgt gctcccgcg gacaccacc gtgtgtacct ggtggacaac aagtcaacg 14280  
 ctgagttggc acccctattc cagaacgacc acagcaactt tctgaccag gtcattcaaa 14340  
 atgtggcacc cctgaactac gaggaagca cacagaccat caatcttgac gaccggtcgc 14400  
 acaatgacta cagcccgggg accatcctgc ataccaacat gccaatgtg aacgagttca 14460  
 actggggcgg cgactgaaa accatcctgc tgggtgtcgc cttgcctact aaggacaate 14520  
 tgtttaccaa taagttaaag gcgcgggtga tgggtgtcgc cgaggggcaac tactccgaga 14580  
 aggtggagct gaaatacagag tgggtggagt tcacgctgcc cgaggggcaac tactccgaga 14640  
 ccatgaccat agaccttatg aacaacgcga tgcgtggagc ctacttgaaa gtgggcagac 14700  
 agaacggggg tctggaaagc gacatcgggg ctgggggata tacaacgaa gccttccatc 14760  
 ggtttgaccc cgtcactggt ggtatgcggg tggacttcac ccacagccgc ctgagcaact 14820  
 cagacatcat tttgctgcca ggatgcgggg agggaggcct taggatcacc tacgatgatc 14880  
 tgttgggcat ccgcaagcgg caacccttcc agggaggcct taggatcacc tacgatgatc 14940  
 tggagggtgg taacattccc gactgtttgg atgtggagc ctaccaggcg agcttgaaag 15000  
 atgacaccga acaggcgcg ggtggcgag gcggcagcaa cagcagtggc agcggcgcg 15060  
 aagagaactc caacgcggca gccgcggcaa ggcagccggt ggaggacatg aacgatcatg 15120  
 ccattcgcg cgacacctt gccacacggg ctgaggagaa gcgcgtgag gccgaagcag 15180  
 cggccgaagc tgccgcccc gctgcgcaac ccgaggtcga gaagcctcag aagaaaccgg 15240  
 tgatcaaaac cctgacagag gacagcaaga aacgcagtta caacctataa cctcagaccg 15300  
 gcaccttcac ccagtaccgc agctgggtacc ttgcatacaa ctacggcgac ctcagaggtc 15360  
 gaatccgctc atggaccctg ctttgactc ctgacgtaac ctgcggctcg gacgaggtc 15420  
 actggtcgtt gccagacatg atgcaagacc ccgtgacctt ccgtccacg cgcagatca 15480  
 gcaactttcc ggtggtgggc gccgagctgt tgcccggtgca ctccaagagc ttctacaacg 15540  
 accaggccgt ctactccaa ctcatccgccc agtttacctc tctgaccac gtgttcaatc 15600  
 gctttcccga gaaccagatt ttggcgccc cccagcccc caccatcacc accgtcagtg 15660  
 aaaacgttcc tgctctcaca gatcacggga cgctaccgct gcgcaacagc atcggaggag 15720  
 tccagcgagt gaccattact gacgccagac gccgcacctg cccctacgtt tacaaggccc 15780  
 tgggcatagt ctgcgcgcgc gtcttatcga gccgcacttt ttgagcaagc atgtccatcc 15840  
 ttatatcgcc cagcaataac acaggctggg gcctgcgctt cccaagcaag atgtttggcg

```

gggccaagaa gcgctccgac caacacccag tgcgcgtgcg cgggcaactac cgcgcgcctt 15900
ggggcgcgca caaacgcggc cgcactgggc gcaccaccgt cgatgacgcc atcgacgcgg 15960
tgggtggagga ggcgcgcaac tacacgcca cgccgccacc agtggtccaca gtggacgcgg 16020
ccattcagac cgtggtgctg ggagcccggc gctatgctaa aatgaagaga cggcgaggcg 16080
gcgtagcacg tcgccaccgc cgccgaccgc gcaatgctgc ccaacgcgcg gcgcgcggcc 16140
tgcttaaccg cgcacgtcgc accggccgac gggcgcccat gggggccgct cgaaggtggt 16200
ccgcgggtat tgtcactgtg ccccccaggt ccaggcgacg agcgcccgcc gcagcagccg 16260
cggccattag tgctatgact cagggtcgca ggggcaacgt gtattgggtg cgcgactcgg 16320
ttagcggcct gcgcgtgccc gtgcgcaccc gcccccgcg caactagatt gcaagaaaaa 16380
actacttaga ctctgactgt tgtatgtatc cagcgcgggc ggcgcgcaac gaagctatgt 16440
ccaagcgcaa aatcaagaa gagatgctcc aggtcatcgc gccggagatc tatggccccc 16500
cgaagaagga agagcaggat tacaagcccc gaaagctaaa gcgggtcaaa aagaaaaaga 16560
aagatgatga tgatgaactt gacgacgagg tggaaactgct gcacgctacc gcgccaggc 16620
gacgggtaca gtggaaagggt cgacgcgtaa aacgtgtttt gcgaccggc accaccgtag 16680
tctttacgcc cgggtgagcgc tccaccgca agcgccctcg ggagtttgcc tacggaaagc 16740
ggcagcagga cctgcttgag caggccaacg acgagggcaa cccaacacct agcctaaagc 16800
ggcataagga catgctggcg ttgccgctgg acgagggcaa cgaagaaaaa cgcggcctaa 16860
ccgtaacact gcagcaggtg ctgcccgcgc ttgcaccgtc ggtacccaag cgcagcgac 16920
agcgcgagtc tgggtgactt gcacccaccg tcgagctgat ggagcccag gtccgcgtgc 17040
tggagatgt cttggaaaaa aacctgggct gcgtgcagac cgtggacgtt cagataccca 17100
ggccaatcaa gcaggtggcg cccggactgg cagagggcat ggagacaca acgtccccgg 17160
ctaccagtag caccagtatt gccaccgcca aggcggctgc tgcggccgag tccaagacct 17220
ttgctcagc ggtggcggtg gcccggtgct ttcgcgtttc agcccccgcg cgcgcgcg 17280
ctacggaggt gaaaacggac ccgtggatgt tactgcccga atatgcccta catccttcca 17340
gttcgaggaa gtacggcgcc gccagcgcg cctaccgccc cagaagacga gcaactacc 17400
ttgcgctac ccccgctat cgtggctaca cccgtcgccg tcgccagccc gtgctggccc 17460
gacgccgaac caccactgga acccgccgcc gccgtcgccg cctggtgctg ccaacagcgc 17520
cgatttccgt gcgcaggggt gctcgcaag gaggcaggac tctttgtgt tcttgcatg atggccctca 17580
gctaccaccc cagcatcggt taaaagccgg tccgaggaag aatgcaccgt aggaggggca 17640
cctgcccgc cctgttcccg gtgcgggtat tccgaggaag ccaccggcg cggcgcgcg 17700
tggccggcca cggcctgacg ggccgcatgc gtcgtgcgca ccactgctt tccactgat gccgcggcga 17760
cgcaccgtcg catgcgcggc ggtatcctgc cctccttat gcagagacac tgattaaaaa 17820
ttggcgccgt gcccggaatt gcatccgtgg ccttgacggc ctcacgctcg cttggtcctg 17880
caagttgcat gtggaaaaat caaaaataaaa tttgcgtctc tggccccgag acacggctcg 17940
taactatttt gtagaatgga agacatcaac ggcaccagca atatgagcgg tggcgccctc 18000
cgcccgttca tgggaaactg gcaagatata ccaccgttaa gaactatggc 18060
agctgggggt cgtgtgtgag cggcattaaa aatttcggtt ataagttgaa agagcaaaa 18120
agcaaggcct ggaacagcag cacaggccag atgctgaggg gcgggggtgt ggacctggcc 18180
ttccaacaaa aggtgtgtag tggcctggcc tctggcatta cccgccctcc cgtagaggag 18240
aaccaggcag tgcaaaataa gattaacagt aagcttgatc gcgaaaagcg tccgcgccc 18300
cctccaccgg ccgtggagac agtgtctcca gaggggcggt gcgaaagcg cctcgtagca ggaggacta 18360
gacagggaag aaactctggt gacgcaata gacgagcctc cctcgtagca gctgggcca 18420
aagcaaggcc tgcccaccac ccgtcccata cgcgccatgg ctaccggagt gctgggcca 18480
cacacaccgg taacgctgga cctgctccc cccgcgcaga cccagcagaa acctgtgctg 18540
ccaggcccgga ccgcgctgtg tgtaaccctg cctagcccg cgctccctgc ccgcgcgcg 18600
agcggtccgc gatcggttgc gcccgtagcc agtggcaact ggcaaaagc actgaacagc 18660
atcggtgggtc tgggggtgca atccctgaag cgcgcagcat gcttctgaat agctaactg 18720
tcgtatgtgt gtcattgtat cgtccatgct gccgcagag gagctgctga gccgcgcgc 18780
gcccgttttc caagatggct accccttcca tgatgccgca gtggtcttac atgcacatct 18840
cggggccagga cgctcgagag tacctgagcc cggggctggt gcagtttgcc cgcgcaccgc 18900
agacgtactt cagcctgaat aacaagttta gaaacccac ggtggcgctt acctgtggac cgtgaggata 18960
tgaccacaga ccggtcccag cgtttgacgc tagctgtggg tgataaccgt gtgctggaca 19020
ctgcgtactc gtacaaggcg cgtttcacc cgtgtggag gggccctact ttttaagcctt 19080
tggcttccac gtactttgac atccgcggcg gcccgtgctc ccaaggggtg cccaaatcct tgcgaatggg 19140
actctggcac tgcctacaac gccctggctc tagaagaaga ggacgatgac aacgaagacg 19200
atgaagctgc tactgctctt gaaataaacc ctacagttat tgggcaggcg ccttattctg 19260
aagtagacga gcaagctgag cagcaaaaaa taggtgtcga aggtcaaaac cctaaatatg 19320
gtataaatat taaaaaggag ggtattcaaa taggtgtcga aggtcaaaac cctaaatatg 19380
ccgataaaac atttcaacct gaacctcaaa taggagaatc tcagtggtag gaaactgaaa 19440
ttaatcatgc agctgggaga gtccttaaaa agactacccc aatgaaacca tgttacggtt 19500
catatgcaaa acccacaagt gaaaatggag ggcaaggcat tcttgtaaag caacaaaatg 19560
gaaagctaga aagtcaagt gaaatgcaat ttttctcaac tactgaggcg accgcaggca 19620
atgggtgataa cttgactcct aaagtgtgat tgtacagtga agatgtagat atagaaaccc 19680
cagacactca tatttcttac atgcccacta ttaaggaagg taactcacga gaactaatg 19740
gccaacaatc tatgcccac aggcctaatt acattgcttt tagggacaat tttattggtc 19800
taatgtatta caacagcacg ggtaatatgg gtgttctggc gggccaagca tcgcagttga

```

atgctgttgt	agattttgcaa	gacagaaaca	cagagctttc	ataccagctt	ttgcttgatt	19860
ccattgggtga	tagaaccagg	tacttttcta	tgtggaatca	ggctgttgac	agctatgac	19920
cagatgttag	aattattgaa	aatcatggaa	ctgaagatga	acttccaaat	tactgctttc	19980
cactggggagg	tgtgattaat	acagagactc	ttaccaaggt	aaaacctaaa	acaggtcagg	20040
aaaatggatg	ggaaaaagat	gctacagaat	tttcagataa	aaatgaaata	agagttggaa	20100
ataattttgc	catggaaatc	aatctaaatg	ccaacctgtg	gagaaatttc	ctgtactcca	20160
acatagcgct	gtattttgcc	gacaagctaa	agtacagtcc	ttccaacgta	aaaatttctg	20220
ataacccaaa	cacctacgac	tacatgaaca	agcgagtgg	ggctcccggg	ttagtggact	20280
gctacattaa	ccttgagca	cgctggtccc	ttgactatat	ggacaacgtc	aacctattta	20340
accaccaccg	caatgctggc	ctgcgctacc	gtcfaatgtt	gctgggcaat	ggctcgctatg	20400
tgcccttcca	catccaggtg	cctcagaagt	tctttgccat	taaaaacctc	cttctcctgc	20460
cggtgctata	cacctacgag	tggaaacttca	ggaaggatgt	taacatggtt	ctgcagagct	20520
ccctaggaaa	tgacctaaag	gttgacggag	ccagcattaa	gtttgatagc	atttgctttt	20580
acgccacctt	cttcccatg	gccacaaca	ccgcctccac	gcttgaggcc	atgcttagaa	20640
acgacaccaa	cgaccagtcc	tttaacgact	atctctccgc	cgccaacatg	ctctacccta	20700
taccgcctaa	cgctaccaac	gtgcccata	ccatcccctc	ccgcaactgg	gcggcttttc	20760
gcggtctggc	cttcacgcgc	cttaagacta	aggaaacccc	atcactgggc	tcgggctacg	20820
acccttatta	cacctactct	ggctctatac	cctacctaga	tggaaacctt	tacctcaacc	20880
acacctttaa	gaagggtggc	attacctttg	actcttctgt	cagctggcct	ggcaatgacc	20940
gctgctttac	ccccaacgag	tttgaaatta	agcgctcagt	tgacggggag	ggttacaacg	21000
ttgccacgtg	taacatgacc	aaagactgg	tcctggtaca	aatgctagct	aactacaaca	21060
ttggctacca	gggttcttat	atcccagaga	gctacaagga	ccgcatgtac	tccttcttta	21120
gaaacttcca	gcccattgagc	cgctcaggtg	tggatgatac	taaatacaag	gactaccaac	21180
aggtgggcat	cctacaccaa	cacaacaact	ctggatttgt	tggctacctt	gccccacca	21240
tgcggaagg	acaggcctac	cctgctaact	tcccctatcc	gcttataggc	aagaccgag	21300
ttgacagcat	taccagaaa	aagtttcttt	gcgatcgac	cctttggcgc	atcccattct	21360
ccagtaactt	tatgtccatg	ggcgactca	cagacctggg	ccaaaacctt	ctctacgcca	21420
actccgcccc	cgcgctagac	atgacttttg	aggtggatcc	catggacgag	cccacccttc	21480
tttatgtttt	gtttgaagtc	tttgacgtgg	tcctgtgtga	ccggccgcac	cgcgccgcta	21540
tcgaaaccgt	gtacctgcgc	acgcccttct	cgccgggcaa	cgccacaaca	taaagaagca	21600
agcaacatca	acaacagctg	ccgccatggg	ctccagttag	caggaaactga	aagccattgt	21660
caaagatctt	ggttggtggc	catatttttt	gggcacctat	gacaagcgct	ttccaggctt	21720
tgtttctcca	cacaagctcg	cctgcgccat	agtcaatacg	gcgggtcgcg	agactggggg	21780
cgtacactgg	atggcctttg	cctggaaccc	gcactcaaaa	acatgctacc	tctttgagcc	21840
ccttggtctt	tctgaccagc	gactcaagca	ggtttaccag	tttgagtacg	agtcactcct	21900
gcgcgtagc	gccattgctt	cttcccccca	ccgctgtata	acgctggaaa	agtcacacca	21960
aagcgtacag	gggcccactg	cgccgcctg	tggactatct	tgctgcatgt	ttctccacgc	22020
ccttgccaac	tggccccaaa	ctcccattga	tcacaacccc	accatgaacc	ttattaccgg	22080
ggtacccaac	tccatgtctc	acagtcacca	ggtacagccc	accctgcgtc	gcaaccagga	22140
acagctctac	agcttctctg	agcgccactc	gccctacttc	cgcagccaca	gtgcgcagat	22200
taggagcgcc	acttcttttt	gtcacttgaa	aaacatgtaa	aaataatgta	ctagagacac	22260
tttcaataaa	ggcaaatgct	tttattttga	cactctcggt	tgattattta	ccccaccctt	22320
tgccgtctgc	gccgttttaa	aatcaaaagg	gttctgcgcg	gcatcgctat	gcgccactgg	22380
cagggacacg	ttgcgatact	ggtgttttag	gtctcactta	aactcaggca	caaccatccg	22440
cggcagctcg	gtgaagtttt	cactccacag	gctgcgcacc	atcaccaacg	cgtttagcag	22500
gtcgggcgcc	gatatcttga	agtcgcagtt	ggggcctccg	ccctgcgcgc	gcgagttgcg	22560
atacacaggg	ttgcagcact	ggaacactat	cagcgccggg	tggtgcacgc	tggccagcac	22620
gctcttgtcg	gagatcagat	ccgcgtccag	gtcctccgcg	tgctcaggg	cgaacggagt	22680
caactttggt	agctgccttc	ccaaaaagg	cgctgccc	ggctttgagt	tgcaactcgca	22740
ccgtagtggc	atcaaaaagg	gaccgtgccc	ggtctggggc	ttaggataca	gcgcctgcat	22800
aaaagccttg	atctgcttaa	aagccacctg	agcctttg	ccttcagaga	agaacatgcc	22860
gcaagacttg	ccggaaaact	gattggccgg	acaggccgcg	tcgtgcacgc	agcaccttgc	22920
gtcggtgttg	gagatctgca	ccacatttgc	gccccaccgg	ttcttcacga	tcttggcctt	22980
gctagactgc	tccttcagcg	cgcgctgccc	gttttcgctc	gtcacatcca	tttcaatcac	23040
gtgctcctta	tttatcataa	tgcttcogtg	tagacactta	agctcgcttc	cgatctcagc	23100
gcagcgggtg	agccacaacg	cgagcccg	gggtcgtga	tgcttgtagg	tcacctctgc	23160
aaacgactgc	aggtacgctt	gcaggaatcg	ccccatcatc	gtcacaaaag	tcttgttgc	23220
ggtgaagggt	agctgcaacc	cgcggtgctc	ctcgcttcagc	caggtcttgc	atacggccgc	23280
cagagcttcc	acttggtcag	gcagtagttt	gaagttcgcc	tttagatcgt	tatccacgtg	23340
gtacttgtcc	atcagcgcg	gcgcagcctc	catgccttcc	tcccacgcag	acacgatcgg	23400
cacactcagc	gggttcatca	ccgtaatttc	actttccgct	tcgctgggct	cttctcttcc	23460
ctcttgcgtc	cgataaccac	gcgccactgg	gtcgtcttca	ttcagccgce	gcactgtgcg	23520
cttacctcct	ttgccatgct	tgattagcac	cggtgggttg	ctgaaaccca	ccatttgtag	23580
cgccacatct	tctctttctt	cctcgctgtc	cacgattacc	tctggtgatg	gcgggcgctc	23640
gggcttggga	gaaggcgct	tcttttctt	cttgggcgca	atggccaaat	ccgccgcgca	23700
ggtcgatggc	cgcggtctgg	gtgtgcgcgg	caccagcgcg	tcttgtgatg	agtcttcttc	23760

gtccctcggac tcgatacggc gcctcatccg cttttttggg ggccgccggg gaggcggcgg 23820  
 cgacgggggac ggggacgaca cgtccctccat gggtggggga cgtcgcgcgg caccgcgtcc 23880  
 gcgctcgggg gtggtttcgc gctgctcctc ttcccgactg gccatttccct tctcctatag 23940  
 gcagaaaaag atcatggagt cagtcgagaa gaaggacagc ctaaccgccc cctctgagtt 24000  
 cgccaccacc gcctccaccg atgcccggaa cgccgctacc accttcccg tcgaggcacc 24060  
 cccgcttgag gaggaggaag tgattatcga gcaggacca ggttttgtaa gcgaagacga 24120  
 cgaggaccgc tcagtaccaa cagaggataa aaagcaagac caggacaacg cagaggcaaa 24180  
 cgaggaacaa gtccggcggg gggacgaaag gcatggcgac tacctagatg tgggagacga 24240  
 cgtgctgttg aagcatctgc agcgccagtg cgccattatc tgcgacgcgt tgcaagagcg 24300  
 cagcgatgtg cccctcgcca tagcgatgt cagccttgcc tacgaacgcc acctattctc 24360  
 accgcgcgta cccccaaac gccaaagaaa cggcacatgc gagcccaacc cgcgcccaa 24420  
 cttctacccc gtatttgccg tgccagaggt gcttgccacc tatcacatct ttttccaaa 24480  
 ctgcaagata cccctatcct gccgtgccaa ccgcagccga cgggacaagc agctggcctt 24540  
 cgccgagggc gctgtcatat ctgatatcgc ctgcgtcaac gaagtgccaa aaatctttga 24600  
 ggggtcttga cgcgacgaga agcgcgcggc aaacgctctg caacaggaaa acagcgaaaa 24660  
 tgaaagtcac tctggagtggt tgggtgaaact cgaggggtgac aacgcgcgcc tagccgtact 24720  
 aaaacgcagc atcgaggtca cccactttgc ctacccggca cttaacctac cccccaaggt 24780  
 catgagcaca gtcagtgatg agctgatcgt gcgcgcgtcg cagcccttg agagggatgc 24840  
 aaatttgcaa gaacaaacag aggaggcct acccgagtt ggcgacgagc agctagcgcg 24900  
 ctggcttcaa acgcgcgagc ctgcccagctt gaggagcgca cgcaactaa tgatggccgc 24960  
 agtgctcgtt accgtggagc ttgagtgcac gcagcggttc tttgctgacc cggagatgca 25020  
 gcgcaagcta gaggaaacat tgactacac ctttcgacag ggctacgtac gccaggcctg 25080  
 caagatctcc aacgtggagc tctgcaacct ggtctcctac cttggaattt tgcacgaaaa 25140  
 ccgccttggg caaaacgtgc ttcattccac gctcaagggc gaggcgcgcc gcgactacgt 25200  
 ccgcgactgc gtttacttat ttctatgcta cacctggcag acggccatgg gcgtttggca 25260  
 gcagtgcttg gaggagtga acctcaagga gctgcagaaa ctgctaaagc aaaacttgaa 25320  
 ggacctatgg acggccttca acgagcgctc cgtggccgag cacctggcgg acatcatttt 25380  
 ccccgaaacgc ctgcttaaaa ccttgcaaca gggcttgcca gacttcacca gtcaaagcat 25440  
 gttgcagaac ttttaggaact ttatcctaga gcgctcagga atcttgcccg ccacctgctg 25500  
 tgcaacttct agcgactttg tgcccattaa gtaccgcgaa tgccctccgc cgctttgggg 25560  
 ccactgctac cttctgcagc tagccaacta ccttgccctac cactctgaca taatggaaga 25620  
 cgtgagcggg gacggtctac tggagtgtca ctgtcgtgc aacctatgca ccccgaccg 25680  
 ctccctgggt tgcaattcgc agctgcttaa cgaaagtcaa attatcggtt cctttgagct 25740  
 gcagggtccc tcgctgacg aaaaagtcgc gctccggggg ttgaaactca ctccggggct 25800  
 gtggaagtcg gcttaccttc gcaaatgtgt acctgaggac taccacgccc acgagattag 25860  
 gttctacgaa gaccaatccc gcccgccaaa tgccgagctt accgcctgcg tcattaccga 25920  
 gggccacatt cttggccaat tgcaagccat caacaaagcc cgccaagagt ttctgctacg 25980  
 aaaggagcgg ggggtttact tggaccccca gtccggcgag gagctcaacc caatccccc 26040  
 gccgcgcgag ccctatcagc agcagccgag ggccttgct tcccaggatg gcacccaaa 26100  
 agaagctgca gctgccgcg ccacccacgg acgaggagga atactgggac agtcaggcag 26160  
 aggaggtttt ggacgaggag gaggaggaca tgatggaaga ctgggagagc ctagacgagg 26220  
 aagcttccga ggtcgaagag gtgtcagacg aaacaccgtc accctcggtc gcattccct 26280  
 cgccggcgcc ccagaaatcg gcaaccggtt ccagcatggc tacaacctcc gctcctcagg 26340  
 cgccgcgcgg actgccggtt cgccgacca accgtagatg ggacaccact ggaaccaggg 26400  
 ccggtaaagc caagcagcg ccgccggttag cccaagagca acaacagcgc caaggctacc 26460  
 gctcatggcg cgggcacaag aacgccatag ttgcttgctt gcaagactgt gggggcaaca 26520  
 tctccttcgc ccgccgcttt cttctctacc atcacggcgt ggccttcccc cgtaacatcc 26580  
 tgcatctacta ccgtcatctc tacagcccat actgcaccg cggcagcgcc agcggcagca 26640  
 acagcagcgg ccacacagaa gcaaggcgga ccgcatagca agactctgac aaagcccaag 26700  
 aaatccacag cgccggcagc agcaggagga ggagcgctgc gtctggcgcc caacgaacc 26760  
 gtatcgaccc gcgagcttag aaacaggatt tttccactc tgtatgctat atttcaacag 26820  
 agcagggggc aagaacaaga gctgaaaata aaaaacaggt ctctgcgac cctcaccgcg 26880  
 agctgcctgt atcacaaaag cgaagatcag cttcggcgca cgctggaaga cgcgaggct 26940  
 ctcttcagta aatactgcgc gctgactctt aaggactagt ttccgcccct ttctcaaat 27000  
 taagcgcgaa aactacgtca tctccagcgg ccacaccgg cgccagcacc tgtcgtcagc 27060  
 gccattatga gcaaggaaat tcccacgccc tacatgtgga gttaccagcc acaaatggga 27120  
 cttgcggtcg gagctgcccc agactactca accgaataa actacatgag cgcgggacc 27180  
 cacatgatat cccgggtcaa cggaaatccg gccaccgaa accgaattct cttggaacag 27240  
 gcggctatta ccaccacacc tcgtaataac cttaatcccc gtatgtggc cgctgcctg 27300  
 gtgtaccagg aaagtcccg tcccaccact gtggtacttc ccagagacgc ccaggccgaa 27360  
 gttcagatga ctaactcagg ggcgagctt gcggcggtt ttctgcacag ggtgcggctg 27420  
 cccgggcagg gtataactca cctgacaatc agaggcgag gtattcagct caacgacag 27480  
 tcggtgagct cctcgcttg tctccgctcg gacgggacat ttcagatcgg cggcgccggc 27540  
 cgtccttcat tcacgcctcg tcaggcaatc ctaactctgc agacctcgtc ctctgagccg 27600  
 cgctctggag gcattggaac tctgcaattt attgaggagt ttgtgccatc ggtctacttt 27660  
 aacccttct cgggacctcc cgccactat ccgcatcaat ttattcctaa ctttgacgcg 27720

gtaaaggact	cgggcgacgg	ctacgactga	atgttaagtg	gagaggcaga	gcaactgcgc	27780
ctgaaacacc	tgggtccactg	tcgcccgcac	aagtgtctttg	cccgcgactc	cgtgtgagttt	27840
tgtacttttg	aattgcccga	ggatcatatc	gagggcccgg	cgacggcggt	ccggcttacc	27900
gcccagggag	agcttgcccg	tagcctgatt	cgggagttta	cccagcgccc	cctgttagtt	27960
gagcgggaca	ggggaccctg	tgttctcact	gtgatttgca	actgtcctaa	ccttggatta	28020
catcaagatc	tttgttgcca	tctctgtgct	gagtataata	aatacagaaa	ttaaaatata	28080
ctggggctcc	tatcgccatc	ctgtaaacgc	caccgtcttc	accgcgccaa	gcaaaccaag	28140
gcgaacctta	cctggtactt	ttaacatctc	tccctctgtg	atttacaaca	gtttcaaccc	28200
agacggagtg	agtctacgag	agaacctctc	cgagctcagc	tactccatca	gaaaaaacac	28260
caccttcctt	acctgcccgg	aacgtacgag	tgcgtcacccg	gccgctgcac	cacacctacc	28320
gcctgaccgt	aaaccagact	ttttccggac	agacctcaat	aactctgttt	accagaacag	28380
gaggtgagct	tagaaaaccc	ttaggggtatt	aggccaaagg	cgagctact	gtggggttta	28440
tgaacaattc	aagcaactct	acgggctatt	ctaattcagg	tttctctaga	agtccaggctt	28500
cctggatgac	agcatctgac	tttggccagc	acctgtcccg	cggatttggt	ccagtcacac	28560
tacagcgacc	caccctaaca	gagatgacca	acacaaccaa	cgcgcccgcc	gtaccgggac	28620
ttacatctac	cacaaatata	ccccaaagttt	ctgcctttgt	caataactgg	gataaacttg	28680
gcatgtggtg	gttctccata	gcgcttatgt	ttgtatgcct	tattattatg	tggctcatct	28740
gctgcctaaa	gcgcaaacgc	gcccgaaccac	ccatctatag	tcccatcatt	gtgctacacc	28800
caaacaatga	tggaatccat	agattggagc	gactgaaaca	catgttcttt	tctcttacag	28860
tatgattaaa	tagatctag	aaatggacgg	aattattaca	gagcagcgcc	tgtctagaag	28920
acgcagggca	gcggccgagc	aacagcgcat	gaatcaagag	ctccaagaca	tggttaactt	28980
gcaccagtg	aaaaggggta	tcttttgtct	ggtaaagcag	gccaaagtca	cctacgcacag	29040
taataccacc	ggacaccgcc	ttagctacaa	gttgccaacc	aagcgtcaga	aattgggtgt	29100
catggtggga	gaaaagccca	ttaccataac	ctagcactcg	gtagaaaccg	aaggtctgat	29160
tcactcacct	tgtcaaggac	ctgaggatct	ctgcaccctt	attaagacct	tgtgcggtct	29220
caaagatctt	attcccttta	actaataaaa	aaaaataata	aagcatcact	tacttaaaat	29280
cagttagcaa	atttctgtcc	agttttattca	gcagcacctc	cttgccctcc	tcccagctct	29340
ggtattgcag	cttccctctg	gctgcaaaact	ttctccacaa	tctaaatgga	atgtcagttt	29400
cctcctgttc	ctgtccatcc	gcacccacta	tctctatggt	gttgccagatg	aagcgcgcga	29460
gaccgtctga	agataccttc	aaacccgtgt	atccatatga	cacggaaacc	ggtcctccaa	29520
ctgtgccttt	tcttactcct	ccctttgtat	cccccaatgg	gtttcaagag	agtccccctg	29580
gggtactctc	tttgccgccta	tccgaacctc	tagttacctc	caatggcatg	cttgccgtca	29640
aaatgggcaa	cgccctctct	ctggacgagg	ccggcaacct	tacctcccaa	aatgtaacca	29700
ctgttgagcc	acctctcaaa	aaaaccaagt	caaacataaa	cctggaaata	tctgcacccc	29760
tcacagttac	ctcagaagcc	ctaactgtgg	ctgcgcgcgc	acctctaata	gtcgcgggca	29820
acacactcac	catgcaatca	caggccccgc	taaccgtgca	cgactccaaa	cttagcattg	29880
ccacccaagg	acccttcaca	gtgtcagaag	gaaagctagc	cctgcaaaca	tcaggccccc	29940
tcaccaccac	cgatagcagt	accttacta	tcaactgcctc	acccccctta	actactgcca	30000
ctggtagctt	gggcattgac	ttgaaagagc	ccattttatac	acaaaatgga	aaactaggac	30060
taaagtacgg	ggctcctttg	catgtaacag	acgacctaaa	cactttgacc	gtagcaactg	30120
gtccaggtgt	gactattaat	aatacttctt	tgcaaaactaa	agttactgga	gccttggggt	30180
ttgattcaca	aggcaatatg	caacttaatg	tagcaggagg	actaaggatt	gattctcaaa	30240
acagagcctc	tatacttgat	gttagttatc	cgtttgatgc	tcaaaaaccaa	ctaaatctaa	30300
gactagagca	ggccctctct	tttataaaact	cagccacaaa	cctggatatt	aactacaaca	30360
aaggccttta	cttggtttaca	gottcaaaaca	attccaaaaa	gcttgagggt	aacctaaagca	30420
ctgccaaagg	gttgatgttt	gacgctacag	ccatagccat	taatgcagga	gatgggcttg	30480
aatttggttc	acctaattgca	ccaaacacaa	atccccctca	aacaaaaaatt	ggccatggcc	30540
tagaatttga	ttcaaacaag	gctatggttc	ctaaactagg	aactggcctt	agttttgaca	30600
gcacagtg	cattacagta	ggaaacaaaa	ataatgataa	gctaactttg	tggaccacac	30660
cagctccatc	tcctaactgt	agactaaatg	cagagaaaaga	tgctaaactc	acttttggtct	30720
taacaaaaatg	tggcagtcaa	atacttgcta	cagtttcagt	tttggctggt	aaaggcagtt	30780
tggctccaat	atctggaaca	gttcaaagtg	ctcatcttat	tataagattt	gacgaaaatg	30840
gagtgtact	aaacaattcc	ttcctggacc	cagaatatgt	gaactttaga	aatggagatc	30900
ttactgaagg	cacagcctat	acaaacgctg	ttggatttat	gcctaacctta	tcagcttatc	30960
caaaatctca	cggtaaaact	gccaaaagta	acattgtcag	tcaagtttac	ttaaacggag	31020
acaaaactaa	acctgtaaca	ctaaccatta	cactaaacgg	tacacaggaa	acaggagaca	31080
caactccaag	tgcatactct	atgtcatttt	catgggactg	gtctggccac	aactacatta	31140
atgaaatatt	tgccacatcc	tcttacactt	tttcatacat	tgcccaagaa	taaagaatcg	31200
tttgtgttat	gtttcaacgt	gtttattttt	caattgcaga	aaattttcaag	tcatttttca	31260
ttcagtagta	tagccccacc	accacatagc	ttatacagat	caccgtacct	taatcaaaact	31320
cacagaaccc	tagtattcaa	cctgccacct	ccctcccaac	acacagagta	cacagtcctt	31380
tctccccggc	tggccttaaa	aagcatcata	tcatgggtaa	cagacatatt	cttaggtgtt	31440
atatttcaca	cggtttcctg	tcgagccaaa	cgctcatcag	tgatattaat	aaactccccg	31500
ggcagctcac	ttaagttcat	gtcgctgtcc	agctgtgag	ccacaggctg	ctgtccaaact	31560
tgcggttgct	taacggggcg	cgaaggagaa	gtccacgcct	acatgggggt	agagtcataa	31620
tcgtgcatca	ggatagggcg	gtgggtgctg	agcagcgcg	gaataaactg	ctgccgcgcg	31680



```

cgctccgtcc tgcaggaata caacatggca gtggtctcct cagcgatgat tcgcaccgcc 31740
cgcagcataa ggcgccttgt cctccgggca cagcagcgca cctgatctc acttaaatca 31800
gcacagtaac tgcagcacag caccacaata ttgttcaaaa toccacagtg caaggcgctg 31860
tatccaaagc tcatggcggg gaccacagaa cccacgtggc catcatacca caagcgcagg 31920
tagattaagt ggcgaccctt cataaacacg ctggacataa acattacctc ttttggcatg 31980
ttgtaattca ccacctcccg gtaccatata aacctctgat taaacatggc gccatccacc 32040
accatcctaa accagctggc caaaacctgc ccgcccggta taaactgcag ggaaccggga 32100
ctggaacaat gacagtggag agcccaggac tcgtaaccat ggatcatcat gctcgtcatg 32160
atatcaatgt tggcacaaca caggcacacg tgcatacact tcctcaggat tacaagctcc 32220
tcccgcgtta gaaccatata ccagggaaca accattcctt gaatcagcgt aaatcccaca 32280
ctgcagggaa gccttcgcac gtaactcacg ttgtgcattg tcaaagtgtt acattcggggc 32340
agcagcggat gatcctccag tatggtagcg cgggtttctg tctcaaaagg aggtagacga 32400
tccctactgt acggagtgcg ccgagacaac cgagatcgtg ttggctcgtg tgctcatgcca 32460
aatggaacgc cggacgtagt catatttctt gaagcaaaac caggtgcggg cgtgacaaa 32520
agatctgcgt ctccggtctc gccgcttaga tcgctctgtg tagtagttgt agtatatcca 32580
ctctctcaaa gcatccaggc gccccctggc ttccgggttct atgtaaactc cttcatgcgc 32640
cgctgccctg ataacatcca ccaccgcaga ataagccaca cccagccaac ctacacattc 32700
gttctgcgag tcacacacgg gaggagcggg aagagctgga agaaccatgt tttttttttt 32760
attccaaaag attatccaaa acctcaaaat gaagatctat taagtgaacg cgctcccctc 32820
cgggtggcgtg gtcaaaactc acagccaaag aacagataat ggcatttgta agatgttgca 32880
caatggcttc caaaaggcaa acggccctca cgtccaagtg gacgtaaagg ctaaaccctt 32940
caggggtgaat ctctctata aacattccag caccttcaac catgcccaaa taattctcat 33000
ctcgccacct tctcaatata tctctaagca aatcccgaat attaagtcgg gccattgtaa 33060
aaatctgtct cagagcgccc tccaccttca gctcaagca gcgaatcatg attgcaaaaa 33120
ttcaggttcc tcacagacct gtataagatt caaaaagcga acatttgta aaataccgcg 33180
atcccgtagg tcccttcgca gggccagctg aacataatcg tgcaggtctg cacggaccag 33240
cgcgccact tcccgcgag gaaccttgac aaaagaaccc acactgatta tgacacgcac 33300
actcggagct atgctaacca gcgtagcccc gatgtaagct ttgttgcatg ggcggcgata 33360
taaaatgcaa ggtgctgtct aaaaaatcag gcaaaagctc gcgcaaaaaa gaaagcacat 33420
cgtagtcatg ctcatgcaga taaaggcagg taagctccgg aaccaccaca gaaaaagaca 33480
ccatttttct ctcaaacatg tctgcgggtt tctgcataaa cacaaaataa aataacaaaa 33540
aaacatttaa acattagaag cctgtcttac aacaggaaaa acaaccctta taagcataag 33600
acggactacg gccatgcgag cgtgaccgta aaaaaactgg tcaccgtgat taaaaagcac 33660
caccgacagc tctcgggtca tgtccggagt cataatgtaa gactcggtaa acacatcagg 33720
ttgattcatc ggctcagtgct aaaaagcgac cgaatatagg ccgggggaata catacccgca 33780
ggcgtagaga caacattaca gcccccatag gaggtataac aaaattaata ggagagaaaa 33840
acacataaac acctgaaaaa cctcctgccc taggcaaaat agcaccctcc cgctccagaa 33900
caacatacag cgcttcacag cggcagccta acagtcagcc ttaccagtaa aaaagaaaac 33960
ctattaaaaa aacaccactc gacacggcac cagctcaatc agtcacagtg taaaaaagg 34020
ccaagtgcgt tacactgcag caggtgtgac tcagccatgg cacctctgca gcctgggtac 34080
cctgcttggg gcatggcccc ttatagctgg gcggggcggt ggggctctgt aggagtggca 34140
gcgacctcag tgtttgtctt tgctctgaag agccctccag gtgcttgatc ccaccttttc 34200
ccagcaggaa cactcctgcc tgccttacca cctgtcctgg ctgatggcct gttcctgctc 34260
cctttgcccc ctgcccagac tcccatgttc ctggacttgg ggcttccctc aaccaggggc 34320
tctcaagcct ccatacctgg tcccacctct ccaggccgtg ggaggagggt tgaggagggt 34380
ggagggcacg tggttggggg cagcctgggt gttccctccc catccctccc ctgggcctcc 34440
caggccccct ctactcttga gcaatgctct tgagagcttc ctgcctggct cttaaaccag 34500
ggcaagccct ggaagggcag acccaggaca ctctaccac ctcttacct tttccctgg 34560
aaaaatcttc tgtatacttc ccattttaag aaaactacaa ttcccaaac atacaagtta 34620
ctccgcctta aaacctacgt caccgcctcc gttcccacgc cccgcgccac gtcacaaact 34680
ccacccctc attatcatat tggcttcaat ccaaaataag gtatattatt gatgatg 34737

```

<210> 16

<211> 36114

<212> DNA

<213> Adenovirus subgroup C

<400> 16

```

catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60
ttgtgacgtg gcgcggggag tgggaacggg gcgggtgacg tagtagtggt gcggaagtgt 120
gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgtttttg 180
gtgtgcgccc gtgtacacag gaagtgcata ttttcgcgcg gttttaggcg gatgttgtag 240
taaattttgg gtaaacgag taagatttgg ccattttcgc gggaaaactg aataagagga 300
agtgaatctt gaataatttt gtgttactca tagcgcgtaa tttttgtcta gggccgcggg 360
gactttgacc gttttacgtg agactcgccc aggtgttttt ctcaggtgtt ttccgcgttc 420
cgggtcaaaag ttggcgtttt attattatag tcagctgacg tgtagtgtat ttatacccg 480

```

```

tgagttcctc aagaggccac tcttgagtgc cagcgagtag agttttctcc tccgagccgc 540
tccgacaccc ggactgaaaa tgagacatga ggtactggct gataatcttc cacctcctag 600
ccattttgaa ccacctaccc ttcacgaact gtatgattta gacgtgacgg cccccgaaga 660
tcccaacgag gaggcggttt cgcagatttt tcccgaactct gtaatgttgg cgggtgcagga 720
agggattgac ttactcactt ttccgcgggc gcccggttct cccgagccgc ctcacctttc 780
ccggcagccc gagcagccgg agcagagagc cttgggtccg gtttgccacg aggtctggctt 840
tccacccagt gacgacgagg atgaagaggg tgaggagttt gtgttagatt atgtggagca 900
ccccgggcac ggttgacagg cttgtcatta tcaccggagg aatacggggg acccagatat 960
tatgtgttcg ctttgctata tgaggacctg tggcatgttt gtctacagta agtgaaaatt 1020
atgggcagtg ggtgatagag tgggtgggtt ggtgtggtaa tttttttttt aatttttaca 1080
ggtttgtggt ttaaagaatt ttgtattgtg atttttttaa aaggtcctgt gtctgaacct 1140
gagcctgagc ccgagccaga accggagcct gcaagaccta cccgccgtcc taaaatggcg 1200
cctgctatcc tgagacgccc gacatcacct gtgtctagag aatgcaatag tagtacggat 1260
agctgtgact ccggtccttc taacacacct cctgagatac acccggtggg cccgctgtgc 1320
cccattaaac cagttgccgt gagagttggg gggcgctgcc aggtctgga atgtatcgag 1380
gacttgctta acgagcctgg gcaacctttg gacttgagct gtaaaccgcc caggccataa 1440
ggtgtaaacc tgtgattgag tgtgtgggta acgcctttgt ttgctgaatg agttgatgta 1500
agtttaataa aggggtgagat aatgtttaac ttgcatggcg tgttaaattg ggcgggggct 1560
aaaggggtata taatgcgcgc tgggctaact ttggttacat ctgacctcat ggaggcttgg 1620
gagtgtttgg aagattttttc tgctgtgcgt aacttgctgg aacagagctc taacagtaac 1680
tcttggtttt ggagggttct gtggggctca tcccaggcaa agttagtctg cagaattaa 1740
gaggattaca agtgggaatt tgaagagcct ttgaaatcct gtggtgagct gtttgattct 1800
ttgaatctgg gtcaccaggc gcttttccaa gagaaggtca tcaagacttt ggatttttcc 1860
acaccggggc gcgctgcggc tgctgttgct tttttgagtt ttataaagga taaatggagc 1920
gaagaaaccc atctgagcgg ggggtacctg ctggattttc tggccatgca tctgtggaga 1980
gctgtgtgta gacacaagaa tcgcctgcta ctgttgtctt ccgtccgccc ggcgataata 2040
ccgacggagg agcagcagca gcagcaggag gaagccaggc ggcggcgcca ggagcagagc 2100
ccatggaacc ccgagagccgg cctggaccct cggaatgaa tggtgtacag gtggctgaac 2160
tgtatccaga actgagacgc attttgacaa ttacagagga tgggcagggg taggaatcta gcttttagct 2280
taaagaggga gcggggggct tgtgaggcta cagaggaggc taggaatcta gatcaaggat aattgcgcta 2340
taatgaccag acaccgtcct gagtgattta cttttcaaca gatcaaggat aattgcgcta 2340
atgagcttga tctgctggcg cagaagtatt ccatagagca gctgaccact tactggctgc 2400
agccagggga tgattttgag gaggtattta ggttatatgc aaaggtggca cttaggccag 2460
attgcaagta caagatcagc aaacttgtaa atatcaggaa ttgttgctac atttctggga 2520
acggggccga ggtggagata gatacggagg atagggtggc ctttagatgt agcatgataa 2580
atatgtggcc ggggtgtctt ggcattggac ggtgtggtat tatgaatgta aggtttactg 2640
gccccaatth tagcggtagc gttttcctgg ccaataccaa ccttatecta cacggtgtaa 2700
gcttctatgg gtttaacaat acctgtgtgg aagcctggac cgatgtaagg gttcggggct 2760
gtgcctttta ctgctgctgg aaggggggtg tggtgcgcc caaaagcagg gcttcaatta 2820
agaaatgect ctttgaaagg tgtaccttgg gtatcctgtc tgagggtaac tccagggtgc 2880
gccacaatgt ggcctccgac tgtggttget tcattgctagt gaaaagcgtg gctgtgatta 2940
agcataacat ggtatgtggc aactgcgagg acagggectc tcagatgctg acctgctcgg 3000
acggcaactg tcacctgctg aagaccattc acgtagccag ccactctcgc aaggcctggc 3060
cagtggttga gcataacata ctgaccgct gttccttgca tttgggtaac aggggggggg 3120
tgttcttacc ttaccaatgc aatttgagtc acactaagat attgcttgag cccgagagca 3180
tgtccaaggt gaacctgaac ggggtgtttg acatgaccat gaagatctgg aaggtgtctga 3240
ggtacgatga gacccgcacc aggtgcagac cctgcgagtg tggcggtaaa catattagga 3300
accagcctgt gatgctggat gtgaccgagg agctgaggcc cgatcacttg gtgctggcct 3360
gcacccgcgc tgagtttggc tctagcgatg aagatacaga ttgaggtact gaaatgtgtg 3420
ggcgtggctt aagggtggga aagaatata aaggtggggg tcttatgtag ttttgtatct 3480
gttttgacg agccgccgcc gccatgagca ccaactcgtt tgatggaagc attgtgagct 3540
catatttgac aacgcgcag ccccatggg cgggggtgcg tcagaatgtg atgggctcca 3600
gcattgatgg tcgccccgtc ctgcccgcaa actctactac cttgacctac gagaccgtgt 3660
ctggaacgcc gttggagact gcagcctccg ccgcgccttc agccgctgca gccaccgccc 3720
gcgggattgt gactgacttt gctttcctga gccgccttgc aagcagtga gcttcccgtt 3780
catccgcccg cgatgacaag ttgacggctc ttttggcaca attggattct ttgaccgggg 3840
aacttaattg cgtttctcag cagctgttgg atctgcgcca gcagggttct gccctgaagg 3900
cttctctccc tcccaatgcg gtttaaaaca taaataaaaa accagactct gtttggattt 3960
ggatcaagca agtgtcttgc tgtctttatt taggggtttt gcgcgcgcgg taggcccggg 4020
accagcgttc tcggtcgttg agggtcctgt gtattttttc caggacgtgg taaaggtgac 4080
tctggatgtt cagatacatg ggcataagcc cgtctctggg gtggaggtag caccactgca 4140
gagcttcatg ctgcccgggt gtgtttaga tgatccagtc gtagcaggag cgctggcgct 4200
ggtgcctaaa aatgtctttc agtagcaagc tgattgccag gggcaggccc ttggtgtaag 4260
tgtttataaaa gcgggttaagc tgggatgggt gcatacgtgg ggatattgag tgcatcttgg 4320
actgtatttt taggttggct atgttcccag ccataatcct cgggggattc atgttgtgca 4380
gaaccaccag cacagtgtat ccggtgcact tgggaaattt gtcattgtag ttagaaggaa 4440

```

atgctgtgga gaacttgag acgcccttgt gacctccaag attttccatg cattcgtcca 4500  
 taatgatggc aatgggcca cgggcggcgg cctgggcgaa gatatttctg ggatcactaa 4560  
 cgtcatagtt gtgttccagg atgagatcgt cataggccat ttttacaaag cgcgggcgga 4620  
 ggggtgccaga ctgcggtata atggttccat ccggccagg ggcgtagtta ccctcacaga 4680  
 tttgcatttc ccacgctttg agttcagatg gggggatcat gtctacctgc ggggcgatga 4740  
 agaaaacggt ttccggggta ggggagatca gctgggaaga aagcagggtt ctgagcagct 4800  
 gcgacttacc gcagccggtg ggcccgtaaa tcacacctat taccgggtgc aactggtagt 4860  
 taagagagct gcagctgccg tcatccctga gcaggggggc cacttcgtta agcatgtccc 4920  
 tgactcgcgt gttttccctg accaaatccg ccagaaggcg ctccggcccc agcgatagca 4980  
 gttcttgcaa ggaagcaaag tttttcaacg gtttgagacc gtccgcccga ggcatgcttt 5040  
 tgagcgtttg accaagcagt tccaggcgtt cccacagctc ggtcacctgc tctacggcat 5100  
 ctgcgtccag catatctcct cgttttcgcg gttggggcgg ctttcgctgt acggcagtag 5160  
 tcgggtgctg tccagacggg ccagggtcat gtctttccac gggcgaggg tcctcgtcag 5220  
 cgtagtctgg gtcacggtga aggggtgcgc tccgggtcgc gcgctggcca ggggtgcgctt 5280  
 gaggctggtc ctgctggtgc tgaagcgctg ccggtcttcg ccctgcgcgt cggccaggtg 5340  
 gcatttgacc atggtgtcat agtccagccc ctccgcggcg tggcccttgg cgcgcagctt 5400  
 gcccttgagg gaggcgccgc acgaggggca gtgcagactt ttgaggcggt agagcttggg 5460  
 cgcgagaaat accgattccg gggagtaggc atccgcgcgg caggccccgc agacggtctc 5520  
 gcattccacg agccagggtga gctctggccg ttccgggtca aaaaccaggt tcccccatg 5580  
 ctttttgatg cgtttcttac ctctggtttc catgagccgg tgtccacgct cggtagacga 5640  
 aaggctgtcc gtgtccccgt atacagactt gagaggcctg tcttcgagcg gtgttccgcg 5700  
 gtctctctcg tatagaaact cggaccactc tgagacaaag gctcgcgtcc aggccagcac 5760  
 gaaggaggct aagtgggagg ggtagcggtc gttgtccact aggggggtcca ctgcgtccag 5820  
 ggtgtgaaga cacatgtcgc cctcttcggc atcaaggaa gtgattggtt tgtagggtga 5880  
 ggccacgtga ccgggtgttc ctgaaggggg gctataaaag ggggtggggg cgcgttcgtc 5940  
 ctactctct tccgcctcgc tgtctgcgag ggccagctgt tggggtgagt actccctctg 6000  
 aaaagcgggc atgacttctg cgctaagatt gtcagtttcc aaaaacgagg aggatttgat 6060  
 attcacctgg ccgcgggtga tgcctttgag ggtggccgca tccatctggt cagaaaagac 6120  
 aatctttttg ttgtcaagct tgggtggcaaa cgaccctag agggcggttg acagcaactt 6180  
 ggcatggag cgcagggttt ggtttttgtc gcgatcggcg cgctccttgg ccgcgatggt 6240  
 tagctgcacg tatcgcgcg caacgcaccg ccattcggga aagacggtg tgcgctcgtc 6300  
 gggcaccagg tgcacgcgcc aaccgcggtt gtgcagggtg acaaggtaa cgctggtggc 6360  
 tacctctccg cgtaggcgct cgttgggtcca gcagaggcg ccgcccttgc gcgagcaga 6420  
 tggcggtagg ggtctagct gcgtctcgtc cggggggtct gcgtccacg taaagcccc 6480  
 gggcagcagg cgcgcgtcga agtagtctat cttgcctcct tgcaagtcta gcgcctgctg 6540  
 ccatgcgcgg gcggcaagcg cgcgctcgta tgggttgagt gggggacccc atggcatggg 6600  
 gtgggtgagc gcggaggcgt acatgccgca aatgtcgtaa acgtagaggg gctctctgag 6660  
 tattccaaga tatgtagggt agcatcttcc accgcggatg ctggcgcgca cgtaatcgta 6720  
 tagttcgtgc gagggagcga ggaagtcggg accagaggtt ctacgggcgg gctgctctgc 6780  
 tcggaagact atctgcctga agatggcatg tgagtggat gatattggtg gacgctggaa 6840  
 gacgttgaag ctggcgtctg tgagacctac cgcgtcacgc acgaaggagg cgtaggagtc 6900  
 gcgcagcttg ttgaccagct cggcgggtgac ctgcacgtct agggcgagct agtccagggt 6960  
 ttcttctgat atgtcatact tatcctgtcc ctttttttcc cacagctcgc ggttgaggac 7020  
 aaactctctg cggctcttcc agtactcttg gatcggaaac ccgtcggcct ccgaacggta 7080  
 agagcctagc atgtagaact ggttgacggc ctggtaggcg cagcatccct tttctacggg 7140  
 tagcgcgtat gcctgcgcgg ccttccggag cgaggtgtgg gtgagcgcaa aggtgtccct 7200  
 gaccatgact ttgaggtact ggtatttgaa gtcagtgtcg tcgcatccgc cctgctccca 7260  
 gagcaaaaag tccgtgcgct ttttggaacg cggatttggc agggcggaagg tgacatcgtt 7320  
 gaagagtatc tttccgcgcg gaggcataaa gttgcgtgtg atgcggaagg gtcccgccac 7380  
 ctccgaaacg ttgttaatta cctgggcggc gagcacgac tcgtcaaagc cgttgatggt 7440  
 gtggcccaaca atgtaaaagt ccaagaagcg cgggatgccc ttgatggaag gcaatttttt 7500  
 aagttcctcg taggtgagct cttcagggga gctgagccc tgctctgaaa gggcccagtc 7560  
 tgcaagatga gggttggaag cgacgaatga gctccacagg tcacgggcca ttagcatttg 7620  
 caggtggtcg cgaaaggctc taaactggcg acctatggcc attttttctg gggtagtgca 7680  
 gtagaaggta agcgggtctt gttcccagcg gtcccaccca aggttcgcgg ctaggctctg 7740  
 cgcggcagtc actagaggct catctccgcc gaacttcatg accagcatga agggcacgag 7800  
 ctgcttccca aaggccccca tccaagtata ggtctctaca tcgtaggtga caaagagacg 7860  
 ctccgtgcga ggtatcgagc cgatcgggaa gaaactggatc tcccgcacc aattggagga 7920  
 gtggctattg atgtggtgaa agtagaagtc cctgcgacgg gccgaacact cgtgctggct 7980  
 tttgtaaaaa cgtgcgcagt actggcagcg gtgcacgggc tgtacatcct gcacgaggtt 8040  
 gacctgacga ccgcgcacaa ggaagcagag tgggaatttg agcccctcgc ctggcgggtt 8100  
 tggctggtgg tcttctactt cggctgcttg tcttgaccg tctggctgct cgaggggagt 8160  
 tacgttggat cggaccacca cgccgcgca gcccaaagtc cagatgtccg cgcgcggcgg 8220  
 tcggagcttg atgacaacat cgcgagatg ggagctgtcc atggtctgga gctcccgcgg 8280  
 cgtcaggtca ggcgggagct cctgcaggtt tacctcgcgt agacgggtca gggcgcgggc 8340  
 tagatccagg tgatacctaa tttccagggg ctggttggtg gcggcgctcga tggcttgcaa 8400

gaggccgcat	ccccgcggcg	cgactacggt	accgcgcggc	gggcggtggg	ccgcgggggt	8460
gtccttgat	gatgcatcta	aaagcgggtg	cgcgggcgag	cccccgagg	tagggggggc	8520
tccggaccgc	ccgggagagg	gggcaggggc	acgtcggcgc	cgcgcgcggg	caggagctgg	8580
tgctgcgcgc	gtaggttgct	ggcgaacgcg	acgacgcggc	ggttgatctc	ctgaatctgg	8640
cgcctctgcg	tgaagacgac	gggcccgggtg	agcttgagcc	tgaaagagag	ttcgacagaa	8700
tcaatttcgg	tgctggtgac	ggcggcctgg	cgcaaaatct	cctgcacgtc	tcctgagttg	8760
tcttgatagg	cgatctcggc	catgaactgc	tcgatctctt	cctcctggag	atctccgcgt	8820
ccggctcgc	ccacgggtggc	ggcgaggtcg	ttggaaatgc	gggccatgag	ctgcgagaag	8880
gcgttgaggc	ctccctcggt	ccagacgcgg	ctgtagacca	cgcccccttc	ggcatcgcg	8940
gcgcgcatga	ccacctgcgc	gagattgagc	tccacgtgcc	ggcggaagac	ggcgtagttt	9000
cgcaggcgct	gaaagaggta	ggtgaggggtg	gtggcggtgt	ggtctgccac	gaagaagtac	9060
ataaccacgc	gtcgcaacgt	ggattcggtg	atatccccc	aggcctcaag	gcgctccatg	9120
gcctcgtaga	agtcacacgc	gaagttgaaa	aactgggagt	tgcgcgccga	cacggttaac	9180
tctctctcca	gaagacggat	gagctcggcg	acagtgtcgc	gcacctcgcg	ctcaaaggct	9240
acaggggcct	cttcttcttc	ttcaatctcc	tcttccataa	gggcctcccc	ttcttcttct	9300
tctggcgcg	gtgggggagg	ggggacacgg	cgcgacgac	ggcgacccgg	gaggcggtcg	9360
acaaagcgct	cgatcatctc	cccgcggcga	cgcgcatgg	tctcggtgac	ggcgcgcccg	9420
ttctcgcggg	ggcgaggttg	gaagacgcgg	cccgtcatgt	cccggttatg	ggttgcggg	9480
gggctgccat	gcggcaggg	tacggcgcta	acgatgcac	tcaacaattg	ttgttaggtg	9540
actccgcgc	cgaggacact	gagcgagtc	gcacgcacg	gatcggaata	cctctcgaga	9600
aaggcgtcta	accagtcaca	gtcgcaaggt	aggctgagca	ccgtggcggg	cggcagcggg	9660
cggcggtcgg	ggttggttct	ggcgaggtg	ctgctgatga	tgtaattaaa	gtaggcggtc	9720
ttgagacggc	ggatggtcga	cagaagcacc	atgtccttgg	gtccggcctg	ctgaatgcgc	9780
aggcggtcgg	ccatgcccc	ggcttcgttt	tgacatcggc	gcaggtcttt	gtagtgactc	9840
tgcatgagcc	tttctacgg	cacttcttct	tctccttct	cttgtcctgc	atctcttgca	9900
tctatcgctg	cggcggcggc	ggagtttggc	cgtaggtggc	gccctcttcc	teccatgcgt	9960
gtgaccccca	agccccctcat	cggctgaagc	agggttaggt	cgcgacaaac	gcgctcggtc	10020
aatatggcct	gctgcacctg	cgtgagggta	gactggaagt	catccatgtc	cacaaagcgg	10080
tggtatgcgc	ccgtggtgat	ggtgtaagt	cagttggcca	taacggacca	gttaacggtc	10140
tggtgacccg	gctgcgagag	ctcggtgtac	ctgagacgcg	agtaagccct	cgagtcaaat	10200
acgtagtcgt	tgcaagtccg	caccaggtac	tggtatccca	ccaaaaagtg	cggcggcggc	10260
tggcggtaga	ggggccagcg	tagggtggcc	ggggtcccg	ggcgagatc	ttccaacata	10320
aggcgatgat	atccgtagat	gtacctggac	atccaggtga	tgccggcggc	ggtggtggag	10380
gdcgcgggac	agtcgcggac	gcggttccag	atgttgcgca	gcggcaaaaa	gtgctccatg	10440
gtcgggacgc	tctggccggt	caggcgcgcg	caatcggtga	cgctctagcg	tgcaaaaagg	10500
gagcctgtaa	gcgggcactc	ttccgtggtc	tggtggataa	attcgcaagg	gtatcatggc	10560
ggacgaccgg	ggttcgagcc	ccgtatccgg	ccgtcccgcc	tgatccatgc	ggttacgcgc	10620
gcggtgtcga	acccaggtgt	gcgacgtcag	acaacggggg	agtgtcctt	ttggttctct	10680
tccagcgcg	cgcgctgctg	cgctagcttt	tttggccact	ggccgcgcgc	agcgtaaagc	10740
gtaggctg	aaagcgaaa	cattaagtgg	ctcgctccct	gtagccggag	ggttatcttc	10800
caagggttga	gtcgcgggac	ccccggttcg	agtctcgga	cgcccgact	gcggcgaaac	10860
ggggtttg	ttcccgtcat	gcaagacccc	gcttgcaaat	tcctccggaa	acagggaaga	10920
gccccttttt	tgcttttccc	agatgcaccc	ggtgctgcgg	cagatgcgc	cccctctcca	10980
gcagggcgaa	gagcaagagc	agcggcgagc	atgcagggca	ccctcccttc	ctcctaccgc	11040
gtcaggaggg	gcgacatccg	cggttgacgc	ggcagcagat	ggtgattacg	aacccccgcg	11100
gcgcggggcc	cggcactacc	tggaacttga	ggaggcgag	ggcctggcgc	ggctaggagc	11160
gccctctcct	gagcgggtacc	caagggtgca	gctgaagcgt	gatacgctg	aggcgtacgt	11220
ccgcggcgag	aacctgtttc	gcgaccgcga	gggagaggag	cccagaggaga	tgccggatcg	11280
aaagtctccac	gcagggcgcg	agctgcggca	tgccctgaat	cgcgagcggt	tgctgcgcga	11340
ggaggacttt	gagcccgacg	cgcgaaacgg	gattagtccc	gcgcgcgcac	acgtggcggc	11400
cgccgacctg	gtaaccgcat	acgagcagac	ggtgaaccag	gagattaaat	ttcaaaaaag	11460
ctttaacaac	cacgtgcgta	cgcttggtgg	gcgcgaggag	gtggctatag	gactgatgca	11520
tctgtgggac	tttgtaagcg	cgctggagca	aaacccaaat	agcaagccgc	tcattggcga	11580
gctgttctct	atagtcagc	acagcaggga	caacgaggca	ttcagggatg	cgctgctaaa	11640
catagtagag	cccagggggc	gctggctgct	cgatttgata	aacatcctgc	agagcatagt	11700
ggtgcaggag	cgagcgttga	gcctggctga	caaggtggcc	gccatcaact	attccatgct	11760
tagcctgggc	aagttttacg	cccgaagat	ataccatacc	ccttacgttc	ccatagacaa	11820
ggaggtaaa	atcgaggggt	tctacatgcg	catggcgctg	aaggtgctta	ccttgagcga	11880
gcacctgggc	gtttatcgca	acgagcgcac	ccacaaggcc	gtgagcgtga	gcccggcgcg	11940
cgagctcagc	gaccgcgagc	tgatgcacag	cctgcaaagg	gccctggctg	gcacgggcag	12000
cggcgataga	gaggccgagt	cctactttga	cgcgggcgct	gacctgcgct	gggccccaa	12060
ccgacgcgcc	ctggaggcag	ctggggcccg	acctgggctg	gcggtggcac	ccgcgcgcgc	12120
tggaactg	ggcgcggtg	aggaatatga	caggaacgat	gagtagcagc	cagaggacgg	12180
cgagtactaa	gcggtgatgt	ttctgatcag	atgatgcaag	acgcaacgga	cccggcggtg	12240
cgggcgcg	tgacagagca	gccgtccggc	cttaactcca	cgacgactg	gcgcaggtc	12300
atggaccgca	tcattgctgt	gactgcgcgc	aatctgacg	cgctccggca	gcagccgag	12360

gccaaccggc	tctccgcaat	tctggaagcg	gtggtcccg	cgcgcgcaaa	ccccacgcac	12420
gagaaggtgc	tggcgatcgt	aaacgcgctg	gccgaaaaca	gggccatccg	gcccgcacgag	12480
gccggcctgg	tctacgacgc	gctgcttcag	cgcggtggctc	gttacaacag	cggcaacgtg	12540
cagaccaacc	tggaccggct	ggtgggggat	gtgcgcgagg	ccgtggcgca	gcgtgagcgc	12600
gcgcagcagc	agggcaacct	gggctccatg	gttgactaa	acgccttctt	gagtacacag	12660
cccgccaacg	tgcgcggggg	acaggaggac	tacaccaact	ttgtgagcgc	actgcggcta	12720
atggtgactg	agacaccgca	aagtgaggtg	taccagtctg	ggccagacta	ttttttccag	12780
accagtagac	aaggcctgca	gaccgtaaac	ctgagccagg	ctttcaaaaa	cttgacgggg	12840
ctgtgggggg	tgcgggctcc	cacaggcgac	cgcgcgaccg	tgtctagctt	gctgacgcc	12900
aactcgcgcc	tgttgctgct	gctaatagag	cccttcacgg	acagtggcag	cgtgtcccg	12960
gacacatacc	taggtcactt	gctgacactg	taccgcgagg	ccataggtca	ggcgcagtgt	13020
gacgagcata	ctttccagg	gattacaagt	gtcagccgcg	cgctggggca	ggaggacacg	13080
ttgcagcctg	aggcaacctt	aaactacctg	ctgaccaacc	ggcggcagaa	gatccccctg	13140
gtgcacagtt	taaacagcga	ggaggagcgc	attttgcgct	acgtgcagca	gagcgtgagc	13200
cttaacctga	tgcgcgacgg	ggtaacgccc	agcgtggcgc	tggacatgac	cgcgcgcaac	13260
atggaaccgg	gcatgtatgc	ctcaaaccgg	ccgtttatca	accgcctaata	ggactacttg	13320
catcgcgcg	ccgcgctgaa	ccccgagtat	ttcaccaatg	ccatcttgaa	cccgcactgg	13380
ctaccgcccc	ctggtttcta	caccggggga	ttcgaggtgc	ccgagggtaa	cgatggattc	13440
ctctgggacg	acatagacga	cagcgtgttt	tccccgcaac	cgacagacct	gctagagttg	13500
caacagcgcg	agcaggcaga	ggcggcgctg	cgaaaggaaa	gcttccgcag	gccaagcagc	13560
ttgtccgatc	taggcgctgc	ggccccgcgg	tcagatgcta	gtagccattt	tccaagcttg	13620
atagggcttc	ttaccagcac	tcgcaccacc	cgccccgcgc	tgtctgggca	ggaggagtac	13680
ctaaacaact	cgctgctgca	gcccgcagcg	gaaaaaaacc	tgctccggc	atttcccaac	13740
aacgggatag	agagcctagt	ggacaagatg	agtagatgga	agacgtacgc	gcaggtgcac	13800
agggacgtgc	caggcccgcg	cccgcaccac	cgctcgtaaa	ggcacgaccg	tcagcggggt	13860
ctggtgtggg	aggacgatga	ctcggcagac	gacagcagcg	tcttggtatt	gggagggagt	13920
ggcaaccctg	ttgcgcacct	tcgccccagg	ctggggagaa	tgttttaaaa	aaaaaaaaagc	13980
atgatcaaaa	ataaaaaact	caccaaggcc	atggcaccga	gcgttggttt	tcttgatttc	14040
cccttagtat	gcggcgcgcg	gcgatgtatg	aggaaggtcc	tcttccctcc	tacgagagtg	14100
tgggtgagcgc	ggcgccagtg	gcggcgggcg	tgggttctcc	cttcgatgct	cccctggacc	14160
cgccgtttgt	gcctccgcgg	tacctgcggc	ctaccggggg	gagaaacagc	atccgttact	14220
ctgagttggc	acccctattc	gacaccaccc	gtgtgtacct	ggtggacaac	aagtcaacgg	14280
atgtggcctg	cctgaactac	cagaacgacc	acagcaactt	tctgaccacg	gtcattcaaa	14340
acaatgacta	cagcccgggg	gaggcaagca	cacagaccat	caatcttgac	gacgttcgc	14400
actggggcgg	cgacctgaaa	accatcctgc	ataccaacat	gccaaatgtg	aacgagttca	14460
tgtttaccaa	taagtttaag	gcgcgggtga	tgggtgtcgc	cttgccctact	aaggacaatc	14520
aggtggagct	gaaatacgag	tgggtggagt	tcacgctgcc	cgaggggcaac	tactccgaga	14580
ccatgacctat	agaccttatg	aacaacgcga	tcgtggagca	ctacttgaaa	gtgggcagac	14640
agaacggggt	tctggaaagc	gacatcgggg	taaagtttga	caccgcgaac	ttcagactgg	14700
ggtttgaccc	cgctactggt	cttgtcatgc	ctggggtata	tacaaacgaa	gccttccatc	14760
cagacatcat	tttgctgcc	ggatgcgggg	tggacttcac	ccacagccgc	ctgagcaact	14820
tgttgggcat	ccgcaagcgg	caacccttcc	aggagggtt	taggatcacc	tacgatgatc	14880
tggagggtgg	taacattccc	gcaactgttg	atgtggagcg	ctaccaggcg	agcttgaaag	14940
atgacaccga	acaggggcgg	ggtggcgag	gcggcgagca	cagcagtggc	agcggcgcg	15000
aagagaactc	caacgcggca	gccgcggcaa	tgcagccggt	ggaggacatg	aacgatcatg	15060
ccattcgcg	cgacaccttt	gccacacggg	ctgaggagaa	gcgcgctgag	gccgaagcag	15120
ggcgccgaag	tgcgcgcccc	gctgcgcaac	ccgaggtcga	gaagcctcag	aagaaaccgg	15180
tgatcaaaac	cctgacagag	gacagcaaga	aacgcagtta	caacctata	agcaatgaca	15240
gcaccttcac	ccagtaccgc	agctggtacc	ttgcatacaa	ctacggcgac	cctcagaccg	15300
gaatccgctc	atggaccctg	ctttgcactc	ctgacgtaac	ctgcggctcg	gagcaggtct	15360
actggtcggt	gccagacatg	atgcaagacc	ccgtgacctt	ccgctccacg	cgccagatca	15420
gcaactttcc	ggtggtgggc	gccgagctgt	tgcccgtgca	ctccaagagc	ttctacaacg	15480
accaggccgt	ctactcccaa	ctcatccgcc	agttttacctc	tctgaccac	gtgttcaatc	15540
gctttcccg	gaaccagatt	ttggcgcgcc	cgccagcccc	caccatcacc	accgtcagtg	15600
aaaacgttcc	tgtcttcaca	gatcacggga	cgctaccgct	gcgcaacagc	atcgaggag	15660
tccagcgagt	gaccattact	gacgccagac	gccgcacctg	cccctacgtt	tacaaggccc	15720
tgggcatag	ctcgccgcgc	gtcctatcga	gcccgaactt	ttgagcaagc	atgtccatcc	15780
ttatatcgcc	cagcaataac	acaggctggg	ccctgcgctt	cccaagcaag	atgtttggcg	15840
gggccaagaa	gcgctccgac	caacacccag	tgcgcgtgcg	cgggcactac	cgcgcgccct	15900
ggggcgcgca	caaacgcggc	cgcactgggc	gcaccaccgt	cgatgacgcc	atcgacgcgg	15960
tgggtggagga	ggcgcgcaac	tacacgcccc	cgccgccacc	agtgtccaca	gtggacgcgg	16020
ccattcagac	cgtggtgctg	ggagccccgc	gctatgctaa	aatgaagaga	cgcgggaggc	16080
gcgttagcacg	tcgccaccgc	gcgcgacccg	gcactgccgc	ccaacgcgcg	gcggcgcccc	16140
tgtttaaccg	cgcacgtcgc	accggccgac	ggggcgccat	gcggggcgct	cgaaggctgg	16200
ccgcgggtat	tgtcactgtg	ccccccaggt	ccaggcgacg	agcggccgcc	gcagcagccg	16260
cggccattag	tgtctatgact	cagggtcgca	ggggcaacgt	gtattgggtg	cgcgactcgg	16320

```

ttagcgccct ggcggtgccc gtgcgcaccc gccccccgcg caactagatt gcaagaaaaa 16380
actacttaga ctctgtactgt tgtatgtatc cagcgccggc ggcgcgcaac gaagctatgt 16440
ccaagcgcaa aatcaaagaa gagatgtctc aggtcatcgc gccggagatc tatggccccc 16500
cgaagaagga agagcaggat tacaagcccc gaaagctaaa gcgggtcaaa aagaaaaaaga 16560
aagatgatga tgatgaactt gacgacgagg tggaactgct gcacgctacc gcgcccaggc 16620
gacgggtaca gtggaaagggt cgacgcgtaa aacgtgtttt gcgaccggc accaccgtag 16680
tcttttacgcc cgggtgagcgc tccaccgcga cctacaagcg cgtgtatgat gaggtgtacg 16740
gcgacgagga cctgcttgag caggccaacg agcgccctcg ggagtttgcc tacgaaaagc 16800
ggcataagga catgctggcg ttgccgctgg acgagggcaa cccaacacct agcctaaagc 16860
ccgtaaacact gcagcagggt ctgcccgcg cctgacccgtc cgaagaaaag cgcgccctaa 16920
agcgcgagtc tgggtgacttg gcacccacgg tgcagctgat ggtaccacag cgccagcgac 16980
tggaagatgt cttggaaaaa atgaccgtgg aacctgggct ggagcccag gtcgcgctgc 17040
ggccaatcaa gcaggtggcg ccgggactgg gcgtgcagac cgtggacgtt catatacca 17100
ctaccagtag caccagtatt gccaccgcca cagagggcat ggagacacaa acgtccccgg 17160
ttgcctcagc ggtggcggat gcccggtgc agcggtcgc tgcggcccgcg tccaagacct 17220
ctacggaggt gcaaacggac ccgtggatgt ttgcgctttc agcccccgcg cgcccccgcg 17280
gttcgaggaa gtacggcgcc gccagcgcg cactgcccga atatgccta catccttcca 17340
ttgcgcctac ccccgctat cgtggctaca cctaccgccc cagaagcga gcaactacct 17400
gacgccgaac caccactgga acccgccg cccgtcgccg tcgccagccc gtgctggccc 17460
cgatttccgt gcgcaggggt gctcgcaag gaggcaggac cctggtgctg ccaacagcgc 17520
gctaccaccc cagcatcggt taaaagccgg tctttgtggt tcttgcatat atggccctca 17580
cctgcgcctt ccgtttcccg gtgcgggat tccgaggaag aatgcaccgt aggggggca 17640
tgcccgccca cggcctgacg ggccgcatgc gtcgtgcga ccaccggcg cgcgcgcgct 17700
cgcaccgtcg catgcgcggc ggtatcctgc cctccttat tccactgatc gccgcgcga 17760
ttggcgccgt gcccggaatt gcatccgtgg ccttgaggc gcagagacac tgattaaaa 17820
caagttgcat gtggaaaaat caaaataaaa agtctggact ctacgctcg cttggtcctg 17880
taactatttt gtagaatgga agacatcaac tttcgctctc tggcccccg acacggctcg 17940
cgcccgttca tgggaaactg gcaagatata ggcaccagca atatgagcgg tggcgccctc 18000
agctggggct cgctgtggag cggcattaaa aatttcggtt ccaccgttaa gaactatggc 18060
agcaaggcct ggaacagcag cacaggccag atgctgaggg ataagttgaa agagcaaaa 18120
ttccaacaaa aggtggtaga tggcctggcc tctggcatta gcgggggtgtt ggacctggcc 18180
aaccaggcag tgcaaaaata gattaacagt aagcttgatc cccgcccctc cgtagaggag 18240
cctccaccgg ccgtggagac agtgtctcca gagggcgctg gcgaaaagcg tccgcgcccc 18300
gacagggaaag aaactctggt gacgcaaata gacgagcctc cctgtacga ggaggcacta 18360
aagcaaggcc tgcccaccac ccgtcccata gcgcccattg ctaccggagt gctgggccag 18420
cacacaccgg taacgctgga cctgcctccc cccgcccaga cccagcagaa acctgtgctg 18480
ccaggcccga ccgcccgtgt tgtaaccctg cctagcccg cgcccgctgc 18540
agcggtccgc gatcggtgcg gcccgtagcc agtggaact ggcaaagcac actgaacagc 18600
atcggtgggtc tgggggtgca atccctgaag cgccgacgat gcttctgaat agctaactgt 18660
tcgtatgtgt gtcattgtat cgtccatgtc gccgcccag gagctgtgta gccgcccgcg 18720
gcccgctttc caagatggct accccttga tgatgccga gtggtcttac atgcacatct 18780
cgggccagga cgccctggag tacctgagcc ccgggctggt gcagtttgc cgcgccaccg 18840
agcgtacttt cagcctgaat aacaagttta gaaaccccac ggtggcgctt acgcacgacg 18900
tgaccacaga ccggtcccag cgtttgacgc tgcggttcat ccctgtggac cgtgaggata 18960
ctgcgtactc gtacaaggcg cggttcaccc tagctgtggg tgataaccgt gtgctggaca 19020
tggtctccac gtactttgac atccgcggcg tgctggacag gggccctact ttttagccct 19080
actctggcac tgcctacaac gccctggctc ccaaggggtc cccaaatcct tgcgaatggg 19140
atgaagctgc tactgctctt gaaataaacc tagaagaaga ggacgatgac aacgaagacg 19200
aagtagacga gcaagctgag cagcaaaaaa ctacagtatt tgggcaggcg ccttattctg 19260
gtataaatat tacaaggag ggtattcaaa taggtgtcga aggtcaaaca cctaaatatg 19320
ccgataaaac atttcaacct gaacctcaaa taggagaatc tcagtgtgac gaaactgaaa 19380
ttaatcatgc agctgggaga gtccttaaaa agactacccc aatgaaacca tgttacggtt 19440
catatgcaaa acccacaat gaaaatggag ggcaaggcat tcttgtaaag caacaaaatg 19500
gaaagctaga aagtcaagtg gaaatgcaat ttttctcaac tactgaggcg accgcaggca 19560
atggtgataa cttgactcct aaagtgtat tgtacagtga agatgtagat atagaaaccc 19620
cagacactca tttttcttac atgcccacta ttaagggaag taactcacga gaactaatgg 19680
gccaacaatc tatgcccac aggcctaatt acattgcttt tagggacaat tttattggtc 19740
taatgtatta caacagcac ggtaatatgg gtgtctctggc gggccaagca tcgcaagtga 19800
atgctgttgt agatttgcaa gacagaaaca cagagctttc ataccagctt ttgcttgatt 19860
ccattggtga tagaaccagg tacttttcta tgtggaatca ggctgttgac agctatgatc 19920
cagatgttag aattattgaa aatcatggaa ctgaagatga acttccaaat tactgctttc 19980
cactgggagg tgtgattaat acagagactc ttaccaaggt aaaacctaaa acaggtcagg 20040
aaaatggatg ggaaaaagat gctacagaat tttcagataa aaatgaaata agagttggaa 20100
ataattttgc catggaaatc aatctaaatg ccaacctgtg gagaaatttc ctgtactcca 20160
acatagcgct gtatttggcc gacaagctaa agtacagtcc ttccaacgta aaaatttctg 20220
ataacccaaa cacctacgac tacatgaaca agcgagtggg ggctcccggg ttagtgagact 20280

```

gctacattaa	ccttgaggca	cgctgggtccc	ttgactatat	ggacaacgtc	aacccattta	20340
accaccacog	caatgctggc	ctgcgctacc	gctcaatgtt	gctgggcaat	ggtcgctatg	20400
tgcccttcca	catccagggtg	cctcagaagt	tctttgccat	taaaaacctc	cttctcctgc	20460
cgggctcata	cacctacgag	tggaacttca	ggaaggatgt	taacatgggt	ctgcagagct	20520
ccctaggaaa	tgacctaaag	gttgacggag	ccagcattaa	gtttgatagc	atgtgccttt	20580
acgccacctt	cttccccatg	gcccaaca	ccgcctccac	gcttgaggcc	atgcttagaa	20640
acgacacca	cgaccagtcc	tttaacgact	atctctccgc	cgccaacatg	ctctacccta	20700
taccgcccaa	cgctaccaac	gtgcccata	ccatccccctc	ccgcaactgg	gcggttttcc	20760
gcggtgggc	cttcacgcgc	cttaagacta	aggaaacccc	atcactgggc	togggtacg	20820
acccttatta	cacctactct	ggctctatac	cctacctaga	tggaaccttt	tacctcaacc	20880
acaccttta	gaaggtggcc	attacctttg	actcttctgt	cagctggcct	ggcaatgacc	20940
gcctgcttac	ccccaacgag	tttgaaatta	agcgctcagt	tgacggggag	ggttacaacg	21000
ttgccagtg	taacatgacc	aaagactggt	tcttggtaca	aatgctagct	aactacaaca	21060
ttggctacca	gggcttctat	atcccagaga	ccgcatgtac	tccttcttta	tccttcttta	21120
gaaacttcca	gcccatagag	cgctcagggtg	tggtatgatac	taaatacaag	gactaccaac	21180
aggtgggcat	cctacacca	cacaacaact	ctggatttgt	tggtacactt	gccccacca	21240
tgcgcgaaag	acaggcctac	cctgctaact	tcccctatcc	gcttataggc	aagaccgcag	21300
ttgacagcat	taccagaaa	aagtttcttt	gcgatcgac	cctttggcgc	atcccattct	21360
ccagtaactt	tatgtccatg	ggcgcaactca	cagacctggg	ccaaaacctt	ctctacgcca	21420
actccgcca	cgcgctagac	atgacttttg	aggtggatcc	catggacgag	cccaccttct	21480
tttatgtttt	gtttgaagtc	tttgacgtgg	tccgtgtgca	ccggccgcac	cgcgcgctca	21540
tcgaaaccgt	gtacctgcgc	acgcccctct	cggcgggcaa	cgccacaaca	taaagaagca	21600
agcaacatca	acaacagctg	ccgccatggg	ctccagttag	caggaactga	aagccattgt	21660
caaagatctt	ggttgtgggc	catatttttt	gggcaacctat	gacaagcgct	ttccaggctt	21720
tgtttctcca	cacaagctcg	cctgcgccat	agtcaatacg	gccggtcgcg	agactggggg	21780
cgtacactgg	atggcctttg	cctggaaccc	gcactcaaaa	acatgctacc	tctttgagcc	21840
ctttggcttt	tctgaccagc	gactcaagca	ggtttaccag	tttgagtacg	agtcactcct	21900
gcgcgtagc	gccattgctt	cttcccccca	ccgctgtata	acgctggaaa	agtcaccca	21960
aagcgtagag	gggcccactg	cggcgcgctg	tgactatttc	tgctgcatgt	ttctccacgc	22020
ctttgccaac	tggtcccaaa	ctcccattgga	tcacaacccc	accatgaacc	ttattaccgg	22080
ggtaccaca	tccatgctca	acagtcccca	ggtacagccc	accctgcgtc	gcaaccagga	22140
acagctctac	agcttcctgg	agcgccactc	gccctacttc	cgcagccaca	gtgcgcagat	22200
taggagcgcc	acttcttttt	gtcacttgaa	aaatatgtta	aaataatgta	ctagagacac	22260
tttcaataaa	ggcaaatgct	tttatttgta	cactctcggt	tgattattta	ccccaccctt	22320
tgccgtctgc	gccgttttaa	aatcaaagggt	gttctgcgcg	gcategctat	gcgccactgg	22380
cagggacacg	ttgcgatact	ggtgttttagt	gtccacttta	aactcaggca	caaccatccg	22440
cggcagctcg	gtgaagtttt	cactccacag	gctgcgcacc	atcaccaacg	cgtttagcag	22500
gtcggggccc	gatatcttga	agtcgcagtt	ggggcctccg	cctgcgcgcg	gcgagttgcg	22560
atacacaggg	ttgcagcact	ggaacactat	cagcgccggg	tggtgcacgc	tgccacgac	22620
gctcttgcg	gagatcagat	ccgcgtccag	gtcctccgcg	ttgctcaggg	cgaacggagt	22680
caactttggt	agctgccttc	ccaaaaagggt	cgctgtccca	ggctttgagt	tgactcgca	22740
ccgtagtggc	atcaaaaagg	gaccgtgccc	ggcttggggc	ttaggataca	gcgcctgcct	22800
aaaagccttg	atctgcttaa	aagccacctg	agcctttgcg	ccttcagaga	agaaacatgc	22860
gcaagacttg	ccggaaaact	gattggccgg	acaggccgcg	tcgtgcacgc	agcaccttgc	22920
gtcgggtgtg	gagatctgca	ccacatttgc	gccccaccgg	ttcttcacga	tcttggcctt	22980
gctagactgc	tccttcagcg	cgcgtgccc	gttttcgctc	gtcacatcca	tttcaatcac	23040
gtgctcctta	tttatcataa	tgcttccgtg	tagacactta	agctgcctt	cgatctcagc	23100
gcagcgggtg	agccacaacg	cgcagcccgt	ggctcgtga	tgcttgtagg	tcacctctgc	23160
aaacgactgc	aggtacgcct	gcaggaatcg	ccccatcatc	gtcacaaagg	tcttgttgct	23220
ggtgaagggtc	agctgcaacc	cgcggtgctc	ctcgctcagc	caggtcttgc	atacggccgc	23280
cagagcttcc	acttggtcag	gcagtagttt	gaagtgcgc	tttagatcgt	tatccacgtg	23340
gtaettgtcc	atcagcgcg	gcgcagcctc	catgcccttc	tcccacgcag	acacgatcgg	23400
cacactcagc	gggttcatca	ccgtaatctc	actttccgct	tcgctgggct	cttctcttcc	23460
ctcttgcgtc	cgcataccac	gcgccactgg	gtcgtcttca	ttcagccgcg	gcactgtgcg	23520
cttacctcct	ttgccatgct	tgattagcac	cgggtgggtg	ctgaaaccca	ccatttgtag	23580
cgccacatct	tctctttctt	cctcgtctgc	cacgattacc	tctggtgatg	gcgggcgctc	23640
gggcttggga	gaagggcgct	tcttttctt	cttgggcgca	atggccaaat	ccgcgcgcca	23700
ggctgatggc	gcggggtgg	gtgtgcgcgg	caccagcgcg	tcttgtgatg	agtccttctc	23760
gtcctcggac	tcgatacgcc	gcctcatccg	cttttttggg	ggcgcccggg	gaggcgcgcg	23820
cgacggggac	ggggacgaca	cgtcctccat	gggtggggga	cgtcgcgcgc	caccgcgtcc	23880
gcgctcgggg	gtggtttcgc	gctgctcctc	ttcccgactg	gccatttctt	tctctatag	23940
gcagaaaaag	atcatggagt	cagtcgagaa	gaaggacagc	ctaaccgcgc	cctctgagtt	24000
gcgccaccac	gcctccaccg	atgccgcca	gcgcctacc	accttccccg	tcgaggcacc	24060
cccgtttgag	gaggaggaag	tgattatcga	gcaggaccca	ggttttgtaa	gcgaagacga	24120
cgaggaccgc	tcagtaccaa	cagaggataa	aaagcaagac	caggacaacg	cagaggcaaa	24180
cgaggaaaca	gtcggggcgg	gggacgaaa	gcattggcgac	tacctagatg	tgggagacga	24240



cgtgctgttg aagcatctgc agcgccagtg cgccattatc tgcgacgcgt tgcaagagcg 24300  
 cagcgatgtg cccctcgcga tagcggatgt cagccttgcc tacgaacgcc acctattctc 24360  
 accgcgcgta ccccccaaac gccaaagaaa cggcacatgc gagcccaacc cgcgcctcaa 24420  
 ctcttaccct gtattttgccc tgcagagagt gcttgccacc tatcacatct ttttccaaaa 24480  
 ctgcaagata cccctatcct gccgtgccaa ccgcagccga gcggacaagc agctggcctt 24540  
 gcggcagggc gctgtcatac ctgatatcgc ctgcctcaac gaagtgccaa aaatctttga 24600  
 ggggtcttga cgcgacgaga agcgcgcgcc aaacgctctg caacaggaaa acagcgaaaa 24660  
 tgaaagtca tctggagtgt tgggtggaact cgaggggtgac aacgcgcgcc tagccgtact 24720  
 aaaaacgcgc atcgagggtca cccactttgc ctaccgcgca cttaacctac cccccaaggt 24780  
 catgagcaca gtcagagtgt agctgatcgt gcgcctgtgc cagcccctgg agaggatgc 24840  
 aaatttgcaa gaacaaacag aggaggcctt accgcagtt ggcgacgagc agctagcgcg 24900  
 ctggcttcaa acgcgcgagc ctgcccactt ggaggagcga cgaaaactaa tgatggccgc 24960  
 agtgctcggt accgtggagc ttgagtgcac gcagcggttc tttgctgacc cggagatgca 25020  
 gcgcaagcta gaggaacat tgcactacac ctctcgacag ggctacgtac gccaggcctg 25080  
 caagatctcc aacgtggagc tctgcaacct ggtctcctac cttggaattt tgcaagaaaa 25140  
 ccgccttggg caaaacgtgc ttcatctcac gctcaaggcg gaggcgcgcc gcgactacgt 25200  
 ccgcgactgc gtttacttat ttctatgcta cacctggcag acggccatgg gcgtttggca 25260  
 gcagtgcctg gaggagtga acctcaagga gctgcagaaa ctgctaaagc aaaacttgaa 25320  
 ggacctatgg acggccttca acgagcgctc cgtggccgcg cacttgccg acatcatttt 25380  
 ccccgaaacg ctgcttaaaa ccttgcaaca ggtctgcca gacttcacca gtcaaagcat 25440  
 gttgcagaac tttaggaaact ttatcctaga gcgctcagga atcttgcccg ccactgtctg 25500  
 tgcacttctc agcgactttg tgcccattaa gtaccgcgaa tgccctccgc cgctttgggg 25560  
 ccactgctac cttctgcagc tagccaacta ccttgcttac cactctgaca taatggaa 25620  
 cgtgagcggt gacggtctac tggagtgtca ctgtcgtgc aacctatgca ccccgaccg 25680  
 ctccctgggt tgcaattcgc agctgcttaa cgaaagtcaa attatcgta cctttgagct 25740  
 gcagggtccc tcgcctgacg aaaagtcgcg ggtccggggg ttgaaactca ctccggggct 25800  
 gtggacgtcg gcttaccttc gcaaatttgt acctgaggac taccacgccc acgagattag 25860  
 gttctacgaa gaccaatccc gcccgccaaa tgcggagctt accgcctgcg tcattacca 25920  
 gggccacatt cttggccaat tgcaagccat caacaaagcc cgccaagagt ttctgctacg 25980  
 aaagggacgg ggggtttact tggaccccca gtcggcgag gagctcaacc caatcccccc 26040  
 gccgcgcgag ccctatcagc agcagccgcg ggcccttgct tccagggatg gcacccaaaa 26100  
 agaagctgca gctgcgcgcg ccaccacagg acgaggagga atactgggac agtcaggcag 26160  
 aggaggtttt ggacgaggag gaggaggaca tgatggaaga ctgggagagc ctagacgagg 26220  
 aagcttccga ggtcgaagag gtgtcagacg aaacaccgtc accctcggtc gcattcccct 26280  
 cgccggcgcc ccagaaatcg gcaaccggtt ccagcatggc tacaacctcc gctcctcagg 26340  
 cgccgcgcgg actgcccgtt cgccgaccca accgtatag ggacaccact ggaaccagg 26400  
 ccggttaagt caagcagccg ccgcggttag cccaagagca acaacagcgc caaggctacc 26460  
 gctcatggcg cgggcacaa gacgccatag ttgcttgctt gcaagactgt gggggcaaca 26520  
 tctccttcgc ccgcgcgttt cttctctacc atcacggcgt ggccttccc cgtaacatcc 26580  
 tgcattacta ccgtcatctc tacagcccat actgcaaccg cggcagcgcc agcggcagca 26640  
 acagcagcgg ccacacagaa gcaaaggcga ccgatagca agactctgac aaagcccaag 26700  
 aaatccacag cggcggcagc agcaggagga ggagcgctgc gtctggcgcc caacgaacc 26760  
 gtatcgaccc gcgagcttag aaacaggatt tttcccactc tgtatgctat atttcaacag 26820  
 agcaggggcc aagaacaaga gctgaaaata aaaaacaggt ctctgcgac cctcaccgc 26880  
 agctgcctgt atcacaaaag cgaagatcag ctccggcgca cgctggaaga cgcggaggct 26940  
 ctcttcagta aatactgcgc gctgactctt aaggactagt ttcgcgccct ttctcaaatt 27000  
 taagcgcgaa aactacgtca tctccagcgg ccacaccgg cgccagcacc tgtcgtcagc 27060  
 gccattatga gcaaggaaat tcccacgccc tacatgtgga gttaccagcc acaaatggga 27120  
 cttgcggctg gagctgccc agactactca accgaataa actacatgag cgcgggacc 27180  
 cacatgatat cccgggtcaa cggaatccgc gccaccgaa accgaattct cttggaacag 27240  
 ggggtatta ccaccacacc tcgtaataac cttaatcccc gtatgtggcc cgctgccctg 27300  
 gtgtaccagg aaagtccgc tcccaccact gtggtacttc ccagagacgc ccaggccgaa 27360  
 gttcagatga ctaactcagg ggcgcagctt gcggcgcgct ttcgtcacag ggtgcggtcg 27420  
 cccgggcag gtataactca cctgacaatc agaggcgag gtattcagct caacgacgag 27480  
 tcgggtgagct cctcgcttgg totccgtccg gacgggacat ttcagatcgg cggcgccggc 27540  
 cgtccctcat tcacgcctcg tcaggcaatc ctaactctgc agacctcgtc ctctgagccg 27600  
 cgctctggag gcattggaac tctgcaattt attgaggagt ttgtgccatc ggtctacttt 27660  
 aaccccttct cgggacctcc cggccactat ccggatcaat ttattcctaa ctttgacgg 27720  
 gtaaaggact cggcgagcgg ctacgactga atgttaagt gagaggcaga gcaactgcgc 27780  
 ctgaaacacc tgggtccactg tcgcccacac aagtgtttg cccgcgactc cggtaggttt 27840  
 tgctactttg aattgccga ggatcatatc gagggcccg cgacggcgt ccggttacc 27900  
 gccaggggag agcttgccc tagcctgatt cgggagttta cccagcgcgc cctgctagtt 27960  
 gagcgggaca ggggaccctg tgttctcact gtgatttgca actgtcctaa ccttgattta 28020  
 catcaagatc tttgttgcca tctctgtgct gagtataata aatacagaaa ttaaaatata 28080  
 ctggggctcc tatcgccatc ctgtaaaacg caccgtcttc acccgcccaa gcaaaccaag 28140  
 gcgaacctta cctggtactt ttaacatctc tccctctgtg atttacaaca gtttcaacc 28200

agacggagtg agtctacgag agaacctctc cgagctcagc tactccatca gaaaaaacac 28260  
 caccctcctt acctgccggg aacgtacgag tgcgtcaccg gccgctgcac cacacctacc 28320  
 gcctgaccgt aaaccagact ttttccggac agacctcaat aactctgttt accagaacag 28380  
 gaggtgagct tagaaaaccc ttaggggtatt aggccaaagg cgcagctact gtgggggtta 28440  
 tgaacaattc aagcaactct acgggctatt ctaattcagg tttctctagg gttggggtta 28500  
 ttctctgtct tgtgattctc tttattctta tactaacgct tctctgccta aggctcgcg 28560  
 cctgctgtgt gcacatttgc atttattgtc agctttttta acgctggggg cgcaccccaa 28620  
 gatgattagg tacataatcc taggtttact cacccttgcg tcagccacag gtaccacca 28680  
 aaagtggtat ttaaggagc cagcctgtaa tggttacatt gcagctgaag ctaatgagt 28740  
 caccactctt ataaaatgca ccacagaaca tgaaaagctg cttattogcc acaaaaacaa 28800  
 aattggcaag tatgctgttt atgctatttg gcagccaggt gacactacag agtataatgt 28860  
 tacagttttc cagggtaaaa gtcataaaac ttttatgtat acttttccat tttatgaaat 28920  
 gtgcgacatt aacctgtaca tgagcaaaac gtataagttg tggcccccac aaaattgtgt 28980  
 ggaaaacact ggcactttct gctgcactgc tatgctaatt acagtgtctg cttgtgtctg 29040  
 taccctactc tatattaaat acaaaagcag acgcagcttt attgaggaaa agaaaatgcc 29100  
 ttaattttat aagttacaaa gctaattgtc ccactaactg ctttactcgc tgcttgcaaa 29160  
 acaaattcaa aaagtttagc ttataattag aataggattt aaaccccccg gtcatttctt 29220  
 gctcaatacc attccctga acaattgact ctatgtggga tatgtccag cgctacaacc 29280  
 ttgaagtcag gcttcctgga tgtcagcatc tgactttggc cagcacctgt cccgcggtat 29340  
 tgttccagtc caactacagc gaccacacct aacacagatg accaacacaa ccaacgcggc 29400  
 cgccgctacc ggaacttacc ctaccacaaa tacaccccaa gtttctgcct ttgtcaataa 29460  
 ctgggataac ttgggcatgt ggtggttctc catagcgctt atgtttgtat gccttattat 29520  
 tatgtggctc atctgctgcc taaagcgcaa acgccccga ccacccatct atagtcccat 29580  
 cattgtgcta caccacaaac atgatggaat ccatagattg gacggactga aacacatgtt 29640  
 cttttctctt acagtatgat taaatgagac atgattcctc gagtttttat attactgacc 29700  
 cttgttgccg ttttttgtgc gtgctccaca ttggctgcgg tttctccat cgaagtagac 29760  
 tgcattccag ccttcacagt ctatttgctt tacggatttg tcacccctcac gctcatctgc 29820  
 agcctcatca ctgtggtcat cgcctttatc cagtgcattg actgggtctg tgtgctgtt 29880  
 gcatatctca gctgtgccca tgtgtgtgtg ctaccatgtt gttttcatgt gttgtgcca 29940  
 tgctcttgte gccttagatc tctctttatg tagtgtgtgt gtgtctctct tgcgtgatg 30000  
 tgtgttttgt cctatatatt ttaattttta atccaaaccc ctgtccccgc agaggccttt 30060  
 gcgttctggt aggcgctcat tgaaaactga cttaactcgt taaattaaaa aaatgtaaaa 30120  
 aataatggtt gagactcagc ccaacatcgg cagatgaggt ggattgagac tcagcccaac 30180  
 atcggcagat gaggtggatt gagactcaac cccaacattg gcagatgagg tgaattagat 30240  
 gaggtggatt gagactcatg aggggtggtat gagggccga cgtccacagg tgggagttgt 30300  
 gctttacagt ccaacgtgca ggacgcttg gattttccag agaacaccaa gattggcaaa 30360  
 ttcgcaactg gcgcctgtg ctcttcacag acggaaaaat gaccccccgg taggtctgcc 30420  
 tgtaaaacgg aaaccgaatg tccgacaaag ttacattgat gacttcccgg taggtctgcc 30480  
 ctgcccgtgg gccgacggcg tccgggaatt ttacaaacga tttcggacgt cttagattca 30540  
 ctacacctgt caaggacctg aggatctctg cacccttatt aagaccctgt gcggtctcaa 30600  
 agatcttatt ccctttaact aataaaaaaa aataataaag catcacttac ttaaatcag 30660  
 ttagcaaat tctgtccagt ttattcagca gcacctcctt gccctcctcc cagctctggt 30720  
 attgcagctt cctcctggct gcaaaccttt tccacaatct aaatggaat tcagtttctt 30780  
 cctgttccctg tccatccgca cccactatct tcatgtgtt gcagatgaag cgcgcaagac 30840  
 cgtctgaaga taccttcaac ccogtgtatc catatgacac ggaacccggt cctccaactg 30900  
 tgccttttct tactcctccc tttgtatccc ccaatgggtt tcaagagagt cccctgggg 30960  
 tactctctt gcgcctatcc gaacctctag ttacctccaa tggcatgctt gcgctcaaaa 31020  
 tgggcaacgg cctctctctg gacgaggccg gcaaccttac ctcccaaat gtaaccactg 31080  
 tgagcccacc tctcaaaaaa accaagtcaa acataaacct ggaaatatct gcacccctca 31140  
 cagttacctc agaagcccta actgtggctg ccgcgcgacc tctaattggt gcgggcaaca 31200  
 cactcaccat gcaatcacag gcccgcgtaa cgtgcacga ctccaaactt agcattgcca 31260  
 cccaaggacc cctcacagt tctactatca ctgctcacc ccctctaact actgccaactg 31320  
 ccaccaccga tagcagtacc cttactatca tttatacaca aaatggaaaa ctaggactaa 31380  
 gtagcttggt cattgacttg aaagagccca tttatacaca tttgaccgta gcaactggtc 31440  
 agtacggggc tcctttgcat gtaacagacg acctaaacac tttgaccgta gcaactggtc 31500  
 caggtgtgac tattaataat acttccttgc aaactaaagt tactggagcc ttgggttttg 31560  
 attcacaagg caatatgcaa cttaattgtg caggaggact aaggattgat tctcaaaaaca 31620  
 gacgccttat acttgatgtt agttatccgt ttgatgtcga aaaccaacta aatctaagac 31680  
 taggacagg cctctttttt ataaactcag cccacaactt ggatattaac tacaacaaag 31740  
 gcctttactt gtttacagct tcaaacattt ccaaaaagct tgagggttaac ctaagcactg 31800  
 ccaaggggtt gatgtttgac gctacagcca tagccattaa tgcaggagat gggcttgaat 31860  
 ttggttcacc taatgcacca aacacaaatc cctcaaaac aaaaattggc catggcctag 31920  
 aatttgattc aaacaaggct atggttccta aactaggaac tggccttagt tttgacagca 31980  
 caggtgccat tacagtagga aacaaaaata atgataagct aactttgtgg accacaccag 32040  
 ctccatctcc taactgtaga ctaaatgcag agaaagatgc taaactcact ttggtcttaa 32100  
 caaatgtggt cagtcacaaa cttgctacag tttcagtttt ggctgttaaa ggcagtttgg 32160

```

ctccaatatc tggaaacagtt caaagtgtct atcttattat aagatttgac gaaaatggag 32220
tgctactaaa caattccttc ctggacccag aatattggaa ctttagaaat ggagatctta 32280
ctgaaggcac agcctataca aacgtgtgtg gatttatgcc taacctatca gcttatccaa 32340
aatctcacgg taaaactgcc aaaagtaaca ttgtcagtc agtttactta aacggagaca 32400
aaactaaacc tgtaacacta accattacac taaacgggtac acaggaaaca ggagacacaa 32460
ctccaagtgct atactctatg tcattttcat gggactgggtc tggccacaac tacattaatg 32520
aaatatattgc cacatcctct tacacttttt catacattgc ccaagaataa agaatcggtt 32580
gtgttatgtt tcaacgtgtt tatttttcaa ttgcagaaaa tttcaagtca tttttcattc 32640
agtagtatag cccaccacc acatagctta tacagatcac cgtaccttaa tcaaactcac 32700
agaaccctag tattcaacct gccacctccc tcccacaca cagagtacac agtcctttct 32760
ccccggctgg ccttaaaaag catcatatca tgggtaacag acatattctt aggtgttata 32820
ttccacacgg tttcctgtcg agccaaacgc tcatcagtga tattaataaa ctccccgggc 32880
agctcactta agttcatgtc gctgtccagc tgctgagcca caggctgtcg tccaacttgc 32940
ggttgtctaa cggggcggcg aggagaagtc cagcctaca tgggggtaga gtcataatcg 33000
tgcatcagga tagggcgggtg gtgctgcagc agcgcgcgaa taaactgtcg ccgcccgcgc 33060
tccgtcctgc aggaatacaa catggcagtg gtctcctcag cgatgattcg caccgcccgc 33120
agcataaggc gccttgtcct ccgggcacag cagcgcaccc tgatctcact taaatcagca 33180
cagtaactgc agcacagcac cacaatattg ttcaaaatcc cacagtgcaa ggcgtgtat 33240
ccaaagctca tggcgggggac cacagaacct acgtggccat cataccacaa gcgcaggtag 33300
attaagtggc gacctctcat aaacacgctg gacataaaca ttacctctt tggcatgttg 33360
taattcacca cctcccggtt ccatataaac ctctgattaa acatggcgcc atccaccacc 33420
atcctaaacc agctggccaa aacctgcccc ccggctatac actgcaggga accgggactg 33480
gaacaatgac agtggagagc ccaggactcg taacctgga tcatcatgct cgtcatgata 33540
tcaatgtttg cacaacacag gcacacgtgc atacacttcc tcaggattac aagctcctcc 33600
cgcgttagaa ccatatccca gggaacaacc cattcctgaa tcagcgtaaa tcccacactg 33660
cagggaagac ctgcacgta actcacgttg tgcattgtca aagtgttaca ttcgggcagc 33720
agcggatgat cctccagtat ggtagcgcgg gtttctgtct caaaaggagg tagacgatcc 33780
ctactgtacg gagtgcgcgg agacaaccga gatcgtgttg gtcgtagtgt catgccaaat 33840
ggaacgcggc acgtagtcat atttctgaa gcaaaaccag gtgcggcgct gacaaacaga 33900
tctgcgtctc cgtctcggc gcttagatcg ctctgtgtag tagttgtagt atatccactc 33960
tctcaaagca tccaggcgcc ccttggttcc gggttctatg taaactcctt catgcgcgcg 34020
tgcctgata acatccacca ccgcagaata agccacaccc agccaacctt cacattcgtt 34080
ctgcgagtc caccggggag gagcgggaag agctggaaga accatgtttt tttttttatt 34140
ccaaaagatt atccaaaacc tcaaaatgaa gatctattaa gtgaacgcgc tccccctcgg 34200
tggcgtgggt aaactctaca gccaaagaac agataatggc atttgtaaga tgttgacaaa 34260
tggcttccaa aaggcaaacg gccctcacgt ccaagtggac gtaaaaggcta aacctttcag 34320
ggtgaatctc ctctataaac attccagcac ctccaacct gcccaaataa ttctcatctc 34380
gccaccttct caatatatct ctaagcaaat cccgaatatt aatcatgatt gcaaaaattc 34440
tctgtctcag agcgccctcc acctcagcc tcaagcagcg aatcaaaaaa taccgcgatc 34500
aggttcctca cagacctgta taagattcaa aagcggaaca ttaacaaaaa taccgcgatc 34560
ccgtaggtcc cttcgaggg ccagctgaac ataactgtgc aggtctgcac ggaccagcgc 34620
ggccacttcc ccgccaggaa ccttgacaaa agaaccacac ctgattatga cagcatact 34680
cggagctatg ctaaccagcg tagccccgat gtaagccttg ttgcatgggc ggcgatataa 34740
aatgcaaggt gctgtctaaa aaatcaggca aagcctcgcg caaaaaagaa agcacatcgt 34800
agtcatgctc atgcagataa aggcaggtaa gctccggaac caccacagaa aaagacacca 34860
tttttctctc aaacatgtct gcgggtttct gcataaacac aaaataaaat aacaaaaaaa 34920
catttaaaaa ttagaagcct gtcttacaac aggaaaaaa acccttataa gcataagacg 34980
gactacggcc atgccggcgt gaccgtaaaa aaactggtca ccgtgattaa aaagcaccac 35040
cgacagctcc tcggtcatgt ccggagtcac aatgtaagac tcggtaaaca catcaggttg 35100
attcatcggc cagtgtctaa aagcgaccga aatagccgg ggaataacat acccgcaggc 35160
gtagagacaa cattacagcc cccataggag gtataacaaa attaatagga gagaaaaaca 35220
cataaacacc tgaaaaaccc tcctgcctag gcaaaaatag accctccgc tccagaacaa 35280
catacagcgc ttcacagcgg cagcctaaca gtcagcctta ccagtaaaaa agaaaacctt 35340
ttaaaaaaac accactcgac acggcaccag ctcaatcagt cacagtgtaa aaaagggcca 35400
agtgcgttac actgcagcag gtgtgactca gccatggcac ctctgcagcc tgggtacctt 35460
gcttggggca tggccccctt tagctgggcg gggcgtgggg gctctgtagg agtggcagcg 35520
acctcagtg tttgttttgc tctgaagagc cctccagggt cttgatccca ccttttccca 35580
gcaggaaacac tcctgcctgc cttaccacct gtccctggctg atggcctgtt cctgcctcct 35640
ttgccccctg cccagactcc catgttcctg gacttgtggc ttcctccaac caggggctct 35700
caagcctcca tacctggctc cacctctcca ggcctgggga gggaggttga ggaggggtga 35760
gggcactctg tggggggcag cctgggtgtt cccctcccat cccctccctg ggctccag 35820
gccccctcta ctcttgagca atgctcttga gagcttctct cctggctctt aaccagggc 35880
aagccctgga agggcagacc caggacactc tcaccacctc cttacctttt cccctggaaa 35940
aatcttctgt atacttccca ttttaagaaa actacaattc ccaacacata caagttactc 36000
cgccctaaaa cctacgtcac ccgccccgtt cccacgcccc gcgccacgtc acaaactcca 36060
ccccctcatt atcatattgg cttcaatcca aaataaggta tattattgat gatg 36114

```

<210> 17  
 <211> 40  
 <212> PRT  
 <213> Adenovirus subgroup C

<400> 17  
 Met Thr Gly Ser Thr Ile Ala Pro Thr Thr Asp Tyr Arg Asn Thr Thr  
           1                  5                  10                  15  
 Ala Thr Gly Leu Thr Ser Ala Leu Asn Leu Pro Gln Val His Ala Phe  
                   20                  25                  30  
 Val Asn Asp Trp Ala Ser Leu Asp  
                   35                  40

<210> 18  
 <211> 19  
 <212> PRT  
 <213> Adenovirus subgroup C

<400> 18  
 Met Trp Trp Phe Ser Ile Ala Leu Met Phe Val Cys Leu Ile Ile Met  
           1                  5                  10                  15  
 Trp Leu Ile

<210> 19  
 <211> 8  
 <212> PRT  
 <213> Adenovirus subgroup C

<400> 19  
 Lys Arg Arg Arg Ala Arg Pro Pro  
           1                  5

<210> 20  
 <211> 42  
 <212> PRT  
 <213> Adenovirus subgroup C

<400> 20  
 Cys Cys Leu Lys Arg Arg Arg Ala Arg Pro Pro Ile Tyr Arg Pro Ile  
           1                  5                  10                  15  
 Ile Val Leu Asn Pro His Asn Glu Lys Ile His Arg Leu Asp Gly Leu  
                   20                  25                  30  
 Lys Pro Cys Ser Leu Leu Leu Gln Tyr Asp  
                   35                  40

<210> 21  
 <211> 11  
 <212> DNA  
 <213> Adenovirus subgroup C

<400> 21  
 ccttaattaa a

<210> 22  
 <211> 10

<212> DNA  
 <213> Adenovirus subgroup C

<400> 22  
 ttaattaagg 10

<210> 23  
 <211> 8  
 <212> DNA  
 <213> Adenovirus subgroup C

<400> 23  
 ttaattaa 8

<210> 24  
 <211> 11  
 <212> DNA  
 <213> Adenovirus subgroup C

<400> 24  
 ccttaattaa a 11

<210> 25  
 <211> 10  
 <212> DNA  
 <213> Adenovirus subgroup C

<400> 25  
 ttaattaagg 10

<210> 26  
 <211> 11  
 <212> DNA  
 <213> Adenovirus subgroup C

<400> 26  
 ccttaattaa a 11

<210> 27  
 <211> 10  
 <212> DNA  
 <213> Adenovirus subgroup C

<400> 27  
 ttaattaagg 10